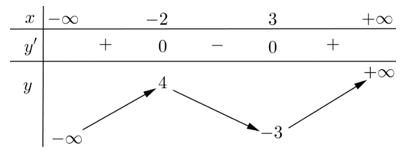
**Tiết 51 – 54 ÔN TẬP VÀ KIỂM TRA CUỐI KÌ 1 Năm 2024 – 2025**

**ĐỀ 1 ÔN TẬP HỌC KÌ 1 TOÁN 12 NĂM HỌC 2024 – 2025**

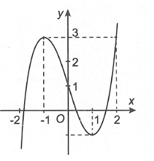
**Phần 1. Trắc nghiệm nhiều phương án**

**Câu 1**. Cho hàm số  có bảng biến thiên như hình bên.

Hàm số đã cho nghich biến trên khoảng nào dưới đây?

**A**. . **B**. . **C**. . **D**. .

**Câu 2.** Cho hàm số  có đồ thị như hình bên.

Điểm cực tiểu của đồ thị hàm

số đã cho là

**A. . B. .**

**C. . D. .**

**Câu 3.** Cho hàm số  có bảng biến thiên như hình bên.



Giá trị nhỏ nhất của hàm số  trên khoảng  bằng

**A**. -2. **B**. 4. **C**. 1. **D**. 0.

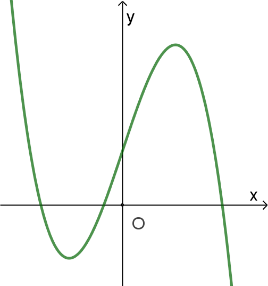
**Câu 4.** Trong không gian , cho . Tọa độ điểm  là

**A**. . **B**. . **C**. . **D**. .

**Câu 5**. Trong không gian , cho . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 6**. Hình bên là đồ thị của hàm số nào dưới đây ?



**A.** .

**B**. .

**C**. .

**D**. .

A diagram of a cube with lines and points

Description automatically generated**Câu 7.** Cho hình hộp như hình vẽ bên. Mệnh đề nào sau đây đúng ?

**A**. .

**B.** .

**C**. .

**D**. .

**Câu 8**. Trong không gian , cho điểm . Hình chiếu vuông góc của điểm  trên mặt phẳng tọa độ  là điểm có tọa độ

A drawing of a cube with lines and letters

Description automatically generated **A.** . **B**. . **C**. . **D**. .

**Câu 9**. Một căn phòng hình hộp

chữ nhật  có

,  và 

Đặt hệ tọa độ như hình

bên. Người ta gắn một cái đèn tại vị trí

chính giữa trần nhà . Tọa

độ của điểm gắn đèn đối với hệ tọa

độ  trên là

**A**. . **B**. . **C**. . **D**. .

**Câu 10**. Trong không gian , cho , .

Mệnh đề nào sau đây đúng?

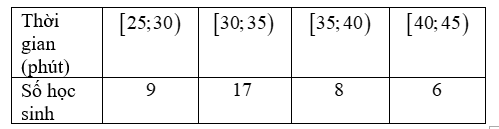
**A**. . **B**. .

**C**. . **D**. .

**Câu 11**. Trong không gian , cho , . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 12**. Cho mẫu số liệu

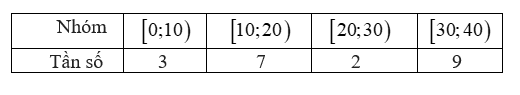


Tứ phân vị  thuộc lớp nào?

**A**.. **B**.. **C**.. **D**..

**Phần 2. Trả lời đúng sai**

**Câu 1**. Thời gian chờ khám bệnh (phút) tại phòng khám ***A*** cho bảng sau



a) Khoảng biến thiên .

b) Cỡ mẫu .

c) Giá trị đại diện của nhóm  là .

d) Độ lệch chuẩn của mẫu số liệu là .

**Câu 2**. Trong không gian , cho hai vectơ .

a) . b) .

c) . d) (làm tròn đến hàng phần chục)

**Câu 3**. Cho hình lập phương  có cạnh bằng như hình vẽ bên.

a) .

![A cube with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAPMAAAC0CAYAAABBqxrrAAAACXBIWXMAABJ0AAASdAHeZh94AAAgAElEQVR4AQA6gcV+Afz8/P8CAgIAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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LSwADAwMAsbGxAEJCQgAUFBQAqqqqAHl5eQDd3d0ArKysAIKCggCioqIA9vb2AHt7ewCJiYkA8PDwAIaGhgCMjIwA8PDwAISEhACNjY0AJSUlADIyMgD09PQArKysAFhYWACUlJQAHx8fAEdHRwCSkpIAUlJSAAkJCQCioqIAR0dHAA0NDQC0tLQAUFBQANDQ0ADg4OAAYWFhANnZ2QDQ0NAAZWVlAK2trQD9/f0AXl5eALm5uQABAQEAR0dHALy8vADq6uoASUlJAKWlpQAkJCQAR0dHALCwsAAWFhYAOjo6AMLCwgADAwMABwcHANfX1wBNTU0AQEBAAP39/QC+vr4AmJiYAKmpqQAWFhYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAwMDAP///wABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/f39AHd3dwBdXV0A7e3tAPv7+wAsLCwAMTExAP7+/gDBwcEAW1tbAFVVVQACAgIAFxcXADw8PAA9PT0AGBgYAFxcXABMTEwAGRkZAFxcXAAUFBQAAgICAHV1dQAAAAAAAQEBAF1dXQAREREADg4OAGNjYwAUFBQAERERAHd3dwATExMA+vr6ABYWFgAZGRkADAwMABcXFwAWFhYAFxcXACkpKQATExMAX19fAPv7+wAGBgYAXFxcAN7e3gAFBQUAXl5eAPT09AADAwMAR0dHABYWFgD4+PgABQUFACMjIwAEBAQASEhIABMTEwAICAgATk5OAB0dHQD19fUAHR0dABMTEwAEBAQALy8vAAwMDAAcHBwA+/v7AAkJCQAPDw8AFxcXAAEBAQABAQEAExMTAP7+/gAEBAQABAQEAP39/QAFBQUA/f39AAAAAAAFBQUADAwMAP39/QDg4OAAAAAAANra2gBeXl4AcXFxAPj4+ABeXl4AVVVVAISEhAAAAAAA3t7eADc3NwDf398AFhYWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/Pz8//7+/v/+/v7//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////v7+/8DAwP8yMjL//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////f39//z8/P/6+vr//f39//7+/v/9/f3//Pz8//v7+/+cnJz/HR0d/+Pj4//9/f3/+fn5//v7+//9/f3/+vr6//z8/P/8/Pz//f39//z8/P/7+/v/+vr6//z8/P/8/Pz//f39//v7+//9/f3/+/v7//n5+f/9/f3/+vr6//z8/P/7+/v//f39//39/f/9/f3//Pz8//v7+//9/f3//f39//z8/P/9/f3/+/v7//r6+v/8/Pz//f39//39/f/9/f3//Pz8//r6+v/7+/v/+vr6//v7+//8/Pz/2tra/x0dHf/x8fH/+/v7//z8/P/8/Pz/+/v7//v7+//8/Pz/+/v7//z8/P/6+vr//f39//v7+//9/f3/+/v7//v7+//7+/v/+vr6//z8/P/8/Pz//f39//n5+f/7+/v//f39//r6+v/8/Pz/+/v7//v7+//7+/v/+/v7//v7+//7+/v/+/v7/7q6uv87Ozv/b29v//j4+P/Z2dn/CwsL/9LS0v/8/Pz//Pz8//r6+v/X19f/+vr6//7+/v//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAwMDAAAAAAAAAAAA/f39AP39/QDNzc0ANTU1ALKysgAbGxsAAQEBAAYGBgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAQEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwMDAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGBgYAAAAAAAAAAAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAD9/f0A/v7+AMTExABaWloASUlJAImJiQAGBgYA9PT0APj4+AAgICAAAgICAAEBAQACAgIAJSUlAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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b) .

c) .

d) 

**Phần 3. Trả lời ngắn**

**Câu 1.** Đồ thị hàm số  có đường tiệm cận đứng  và đường tiệm cận ngang . Tính .

**Câu 2**. Mỗi đợt xuất khẩu gạo của tỉnh  kéo dài trong  ngày.

Người ta thấy lượng gạo xuất khẩu theo ngày thứ  được xác định bởi

công thức: (tấn) với .

Ngày thứ mấy lượng gạo xuất khẩu lớn nhất?

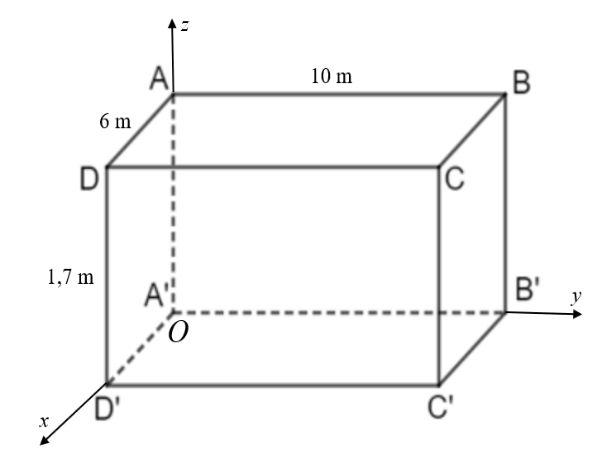
**Câu 3**. Ông A dự định sử dụng hết  tôn để làm một thùng dạng hình hộp chữ nhật không nắp để chứa lúa, chiều dài gấp đôi chiều rộng (các mối ghép có kích thước không đáng kể). Thể tích lớn nhất thùng bằng bao nhiêu (kết quả làm tròn đến hàng phần trăm).

**Câu 4. a)**Tìm giá trị lớn nhất của hàm số



b)Tìm giá trị nhỏ nhất của hàm số



****c) Tìm giá trị nhỏ nhất, lớn nhất của hàm số 

trên đoạn ****

**Câu 5.** Cho hình hộp bên

a)Tìm toạ độ các đỉnh của

hình hộp

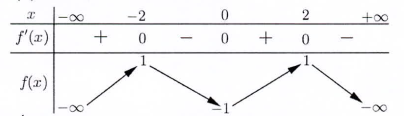
b) Gọi là tâm của .

Tính 

**ĐỀ 2**. **ÔN TẬP HỌC KÌ 1 TOÁN 12 NĂM HỌC 2024 – 2025**

**Phần 1. Trắc nghiệm nhiều phương án**

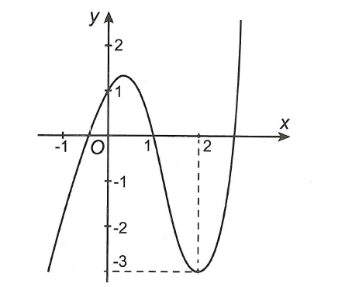
**Câu 1**. Cho hàm số  có bảng biến thiên như hình bên.



Hàm số đã cho đồng biến trên khoảng nào dưới đây?

**A. . B.**  **C.**  **D.** 

**Câu 2.** Cho hàm số  có đồ thị như hình bên.

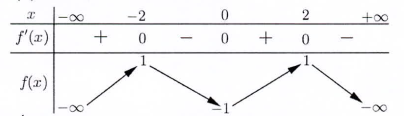
Điểm cực tiểu của đồ thị hàm

số đã cho là

**A. . B. .**

**C. . D. .**

**Câu 3.** Cho hàm số  có bảng biến thiên như hình bên.



Giá trị lớn nhất của hàm số  trên khoảng  bằng

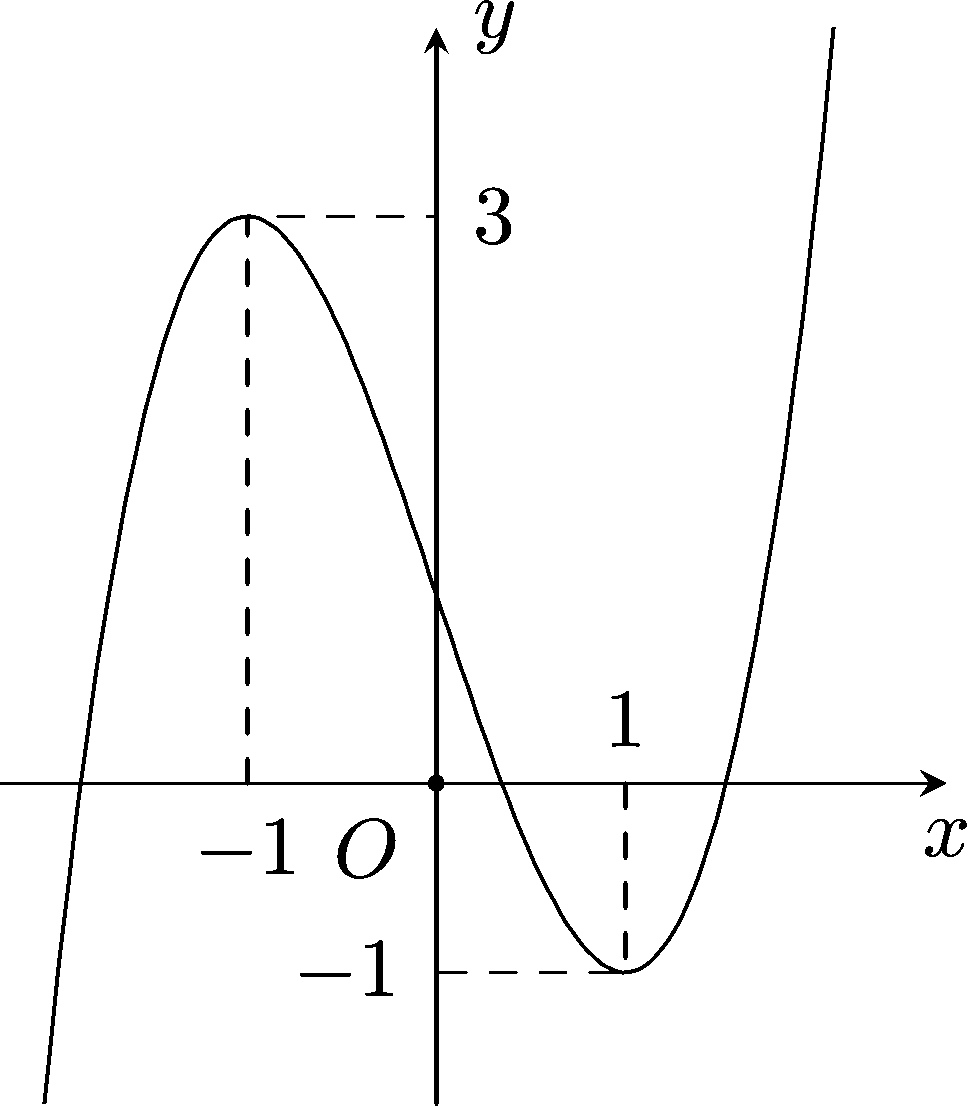
**A**. 2. **B**. 0. **C**. 1. **D**. -1.

**Câu 4.** Trong không gian , cho . Tọa độ điểm  là

**A**. . **B**. . **C**. . **D**. .

**Câu 5**. Trong không gian , cho . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 6**. Hình bên là đồ thị của hàm số nào dưới đây ?

**A.** .

**B. **

**C.** .

**D.** 

A diagram of a cube with lines and points

Description automatically generated**Câu 7.** Cho hình hộp như hình vẽ bên. Mệnh đề nào sau đây đúng ?

**A**. .

**B.** .

**C**. .

**D**. .

**Câu 8**. Trong không gian , cho điểm . Hình chiếu vuông góc của điểm  trên mặt phẳng tọa độ  là điểm có tọa độ

A drawing of a cube with lines and letters

Description automatically generated **A.** . **B**. . **C**. . **D**. .

**Câu 9**. Một căn phòng hình hộp

chữ nhật  có

,  và 

Đặt hệ tọa độ như hình

bên. Người ta bắt một cái quạt tại vị trí

chính giữa sàn nhà . Tọa

độ của điểm bắt quạt đối với hệ tọa

độ  trên là

**A**. . **B**. . **C**. . **D**. .

**Câu 10**. Trong không gian , cho , .

Mệnh đề nào sau đây đúng?

**A**. . **B**. .

**C**. . **D**. .

**Câu 11**. Trong không gian , cho , . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 12**.Doanh thu bán hàng trong 30 ngày được lựa chọn ngẫu nhiên của một cửa hàng được ghi lại ở bảng sau (đơn vị: triệu đồng):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Doanh thu |  |  |  |  |  |
| Số ngày | 2 | 7 | 7 | 3 | 11 |

Khoảng biển thiên của mẫu số liệu trên là

**A**. . **B**. . **C.** . **D**. .

**Phần 2. Trả lời đúng sai**

**Câu 1**. Ông T đầu tư số tiền bằng nhau vào hai lĩnh vực kinh doanh **A** và **B** . Ông T thống kê số tiền thu nhập mỗi tháng tháng theo mỗi lĩnh vực cho kết quả như sau

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Số tiền(triệu đồng) |  |  |  |  |  |
| Số tháng đầu tư vào lĩnh vực **A** | 5 | 10 | 30 | 10 | 5 |
| Số tháng đầu tư vào lĩnh vực **B** | 20 | 5 | 10 | 5 | 20 |

a) Cỡ mẫu của bảng số liệu ở lĩnh vực **A** là 60.

b)Tứ phân vị thứ nhất .

c) Giá trị đại diện của nhóm  là .

d) Biết rằng số tiền trung bình thu được khi đầu tư váo các lĩnh vực **A, B** là bằng nhau và phương sai ở lĩnh vực **A** là , độ lệch chuẩn ở lĩnh vực **B** là . Căn cứ vào số liệu trên, người ta nói rằng, đầu tư vào lĩnh vực **A** là “rủi ro” hơn.

**Câu 2**. Trong không gian , cho hai vectơ .

a) . b) .

c) . d) (làm tròn đến hàng phần chục)

![A cube with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with

Description automatically 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LSwADAwMAsbGxAEJCQgAUFBQAqqqqAHl5eQDd3d0ArKysAIKCggCioqIA9vb2AHt7ewCJiYkA8PDwAIaGhgCMjIwA8PDwAISEhACNjY0AJSUlADIyMgD09PQArKysAFhYWACUlJQAHx8fAEdHRwCSkpIAUlJSAAkJCQCioqIAR0dHAA0NDQC0tLQAUFBQANDQ0ADg4OAAYWFhANnZ2QDQ0NAAZWVlAK2trQD9/f0AXl5eALm5uQABAQEAR0dHALy8vADq6uoASUlJAKWlpQAkJCQAR0dHALCwsAAWFhYAOjo6AMLCwgADAwMABwcHANfX1wBNTU0AQEBAAP39/QC+vr4AmJiYAKmpqQAWFhYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAwMDAP///wABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/f39AHd3dwBdXV0A7e3tAPv7+wAsLCwAMTExAP7+/gDBwcEAW1tbAFVVVQACAgIAFxcXADw8PAA9PT0AGBgYAFxcXABMTEwAGRkZAFxcXAAUFBQAAgICAHV1dQAAAAAAAQEBAF1dXQAREREADg4OAGNjYwAUFBQAERERAHd3dwATExMA+vr6ABYWFgAZGRkADAwMABcXFwAWFhYAFxcXACkpKQATExMAX19fAPv7+wAGBgYAXFxcAN7e3gAFBQUAXl5eAPT09AADAwMAR0dHABYWFgD4+PgABQUFACMjIwAEBAQASEhIABMTEwAICAgATk5OAB0dHQD19fUAHR0dABMTEwAEBAQALy8vAAwMDAAcHBwA+/v7AAkJCQAPDw8AFxcXAAEBAQABAQEAExMTAP7+/gAEBAQABAQEAP39/QAFBQUA/f39AAAAAAAFBQUADAwMAP39/QDg4OAAAAAAANra2gBeXl4AcXFxAPj4+ABeXl4AVVVVAISEhAAAAAAA3t7eADc3NwDf398AFhYWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/Pz8//7+/v/+/v7//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////v7+/8DAwP8yMjL//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////f39//z8/P/6+vr//f39//7+/v/9/f3//Pz8//v7+/+cnJz/HR0d/+Pj4//9/f3/+fn5//v7+//9/f3/+vr6//z8/P/8/Pz//f39//z8/P/7+/v/+vr6//z8/P/8/Pz//f39//v7+//9/f3/+/v7//n5+f/9/f3/+vr6//z8/P/7+/v//f39//39/f/9/f3//Pz8//v7+//9/f3//f39//z8/P/9/f3/+/v7//r6+v/8/Pz//f39//39/f/9/f3//Pz8//r6+v/7+/v/+vr6//v7+//8/Pz/2tra/x0dHf/x8fH/+/v7//z8/P/8/Pz/+/v7//v7+//8/Pz/+/v7//z8/P/6+vr//f39//v7+//9/f3/+/v7//v7+//7+/v/+vr6//z8/P/8/Pz//f39//n5+f/7+/v//f39//r6+v/8/Pz/+/v7//v7+//7+/v/+/v7//v7+//7+/v/+/v7/7q6uv87Ozv/b29v//j4+P/Z2dn/CwsL/9LS0v/8/Pz//Pz8//r6+v/X19f/+vr6//7+/v//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAwMDAAAAAAAAAAAA/f39AP39/QDNzc0ANTU1ALKysgAbGxsAAQEBAAYGBgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAQEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwMDAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGBgYAAAAAAAAAAAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAD9/f0A/v7+AMTExABaWloASUlJAImJiQAGBgYA9PT0APj4+AAgICAAAgICAAEBAQACAgIAJSUlAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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3**. Cho hình lập phương  có cạnh bằng  như hình vẽ bên.

a) .

b) .

c) .

d) 

**Phần 3. Trả lời ngắn**

**Câu 1.** Đồ thị hàm số  có đường tiệm cận đứng  và đường tiệm cận ngang . Tính .

**Câu 2**. Một của hàng bắt đầu bán hàng tết trong 5 ngày từ ngày 25 âm

lich đến hết ngày 29 trước tết. Lợi nhuận trong ngày thứ  được biểu

diễn bởi hàm (triệu đồng), . Hỏi ngày

nào âm lịch cửa hàng đó thu được lợi nhuận lớn nhất.

**Câu 3**. Người ta xây một bể chứa nước với dạng khối hộp chữ nhật không nắp có thể tích bằng . Đáy bể là hình chữ nhật có chiều dài gấp đôi chiều rộng. Giá thuê nhân công để xây bể là  đồng /. Chi phí thuê nhân công làm bể đó thấp nhất là bao nhiêu triệu đồng?

**Phần 4. Tự luận.**

**Câu 1.** Tìm giá trị nhỏ nhất của hàm số  trên khoảng



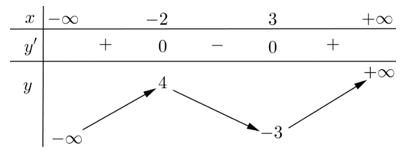
**Câu 2**. Trong không gian , cho hai điểm ,

. Tìm toạ độ điểm  thuộc mặt phẳng  sao cho

 lớn nhất.

**ĐỀ 3**. **ÔN TẬP HỌC KÌ 1 TOÁN 12 NĂM HỌC 2024 – 2025**

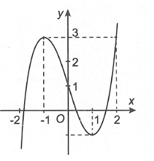
**Phần 1. Trắc nghiệm nhiều phương án**

**Câu 1**. Cho hàm số  có bảng biến thiên như hình bên.

Hàm số đã cho đồng biến trên khoảng nào dưới đây?

**A**. . **B**. . **C**. . **D**. .

**Câu 2.** Cho hàm số  có đồ thị như hình bên.

Điểm cực đại của đồ thị hàm

số đã cho là

**A. . B. .**

**C. . D. .**

**Câu 3.** Cho hàm số  có bảng biến thiên như hình bên.



Giá trị lớn nhất của hàm số  trên khoảng  bằng

**A**. -2. **B**. 4. **C**. 1. **D**. 0.

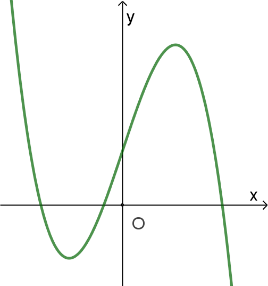
**Câu 4.** Trong không gian , cho . Tọa độ điểm  là

**A**. . **B**. . **C**. . **D**. .

**Câu 5**. Trong không gian , cho . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 6**. Hình bên là đồ thị của hàm số nào dưới đây ?



**A.** .

**B**. .

**C**. .

**D**. .

A diagram of a cube with lines and points

Description automatically generated**Câu 7.** Cho hình hộp như hình vẽ bên. Mệnh đề nào sau đây đúng ?

**A**. .

**B.** .

**C**. .

**D**. .

**Câu 8**. Trong không gian , cho điểm . Hình chiếu vuông góc của điểm  trên mặt phẳng tọa độ  là điểm có tọa độ

A drawing of a cube with lines and letters

Description automatically generated **A.** . **B**. . **C**. . **D**. .

**Câu 9**. Một căn phòng hình hộp

chữ nhật  có

,  và 

Đặt hệ tọa độ như hình

bên. Người ta bắt một cái quạt tại vị trí

chính giữa bờ tường . Tọa

độ của điểm bắt quạt đối với hệ tọa

độ  trên là

**A**. . **B**. . **C**. . **D**. .

**Câu 10**. Trong không gian , cho , .

Mệnh đề nào sau đây đúng?

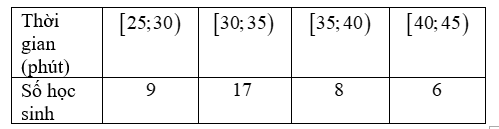
**A**. . **B**. .

**C**. . **D**. .

**Câu 11**. Trong không gian , cho , . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 12**. Cho mẫu số liệu

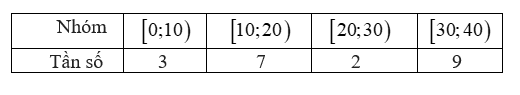


Khoảng biến thiên của mẫu số liệu trên là

**A**. 45 – 40. **B**. 45+40. **C**. 30 - 25 . **D**. 45 – 25.

**Phần 2. Trả lời đúng sai**

**Câu 1**. Thời gian chờ khám bệnh (phút) tại phòng khám ***A*** cho bảng sau



a) Tứ phân vị thứ nhất .

b) Cỡ mẫu .

c) Giá trị đại diện của nhóm  là .

d) Biết phương sai của mẫu số liệu tại phòng khám ***A*** là 129,7. Tại phòng khám B có phương sai 128,9. Vậy thời gian bệnh nhân chờ khám ở phòng khám A lâu hơn ở phòng khám ***B***.

**Câu 2**. Trong không gian , cho hai vectơ .

a) . b) .

c) . d) (làm tròn đến hàng phần chục)

![A cube with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with

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LSwADAwMAsbGxAEJCQgAUFBQAqqqqAHl5eQDd3d0ArKysAIKCggCioqIA9vb2AHt7ewCJiYkA8PDwAIaGhgCMjIwA8PDwAISEhACNjY0AJSUlADIyMgD09PQArKysAFhYWACUlJQAHx8fAEdHRwCSkpIAUlJSAAkJCQCioqIAR0dHAA0NDQC0tLQAUFBQANDQ0ADg4OAAYWFhANnZ2QDQ0NAAZWVlAK2trQD9/f0AXl5eALm5uQABAQEAR0dHALy8vADq6uoASUlJAKWlpQAkJCQAR0dHALCwsAAWFhYAOjo6AMLCwgADAwMABwcHANfX1wBNTU0AQEBAAP39/QC+vr4AmJiYAKmpqQAWFhYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAwMDAP///wABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/f39AHd3dwBdXV0A7e3tAPv7+wAsLCwAMTExAP7+/gDBwcEAW1tbAFVVVQACAgIAFxcXADw8PAA9PT0AGBgYAFxcXABMTEwAGRkZAFxcXAAUFBQAAgICAHV1dQAAAAAAAQEBAF1dXQAREREADg4OAGNjYwAUFBQAERERAHd3dwATExMA+vr6ABYWFgAZGRkADAwMABcXFwAWFhYAFxcXACkpKQATExMAX19fAPv7+wAGBgYAXFxcAN7e3gAFBQUAXl5eAPT09AADAwMAR0dHABYWFgD4+PgABQUFACMjIwAEBAQASEhIABMTEwAICAgATk5OAB0dHQD19fUAHR0dABMTEwAEBAQALy8vAAwMDAAcHBwA+/v7AAkJCQAPDw8AFxcXAAEBAQABAQEAExMTAP7+/gAEBAQABAQEAP39/QAFBQUA/f39AAAAAAAFBQUADAwMAP39/QDg4OAAAAAAANra2gBeXl4AcXFxAPj4+ABeXl4AVVVVAISEhAAAAAAA3t7eADc3NwDf398AFhYWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/Pz8//7+/v/+/v7//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////v7+/8DAwP8yMjL//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////f39//z8/P/6+vr//f39//7+/v/9/f3//Pz8//v7+/+cnJz/HR0d/+Pj4//9/f3/+fn5//v7+//9/f3/+vr6//z8/P/8/Pz//f39//z8/P/7+/v/+vr6//z8/P/8/Pz//f39//v7+//9/f3/+/v7//n5+f/9/f3/+vr6//z8/P/7+/v//f39//39/f/9/f3//Pz8//v7+//9/f3//f39//z8/P/9/f3/+/v7//r6+v/8/Pz//f39//39/f/9/f3//Pz8//r6+v/7+/v/+vr6//v7+//8/Pz/2tra/x0dHf/x8fH/+/v7//z8/P/8/Pz/+/v7//v7+//8/Pz/+/v7//z8/P/6+vr//f39//v7+//9/f3/+/v7//v7+//7+/v/+vr6//z8/P/8/Pz//f39//n5+f/7+/v//f39//r6+v/8/Pz/+/v7//v7+//7+/v/+/v7//v7+//7+/v/+/v7/7q6uv87Ozv/b29v//j4+P/Z2dn/CwsL/9LS0v/8/Pz//Pz8//r6+v/X19f/+vr6//7+/v//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAwMDAAAAAAAAAAAA/f39AP39/QDNzc0ANTU1ALKysgAbGxsAAQEBAAYGBgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAQEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwMDAAAAAAACAgIAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGBgYAAAAAAAAAAAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAD9/f0A/v7+AMTExABaWloASUlJAImJiQAGBgYA9PT0APj4+AAgICAAAgICAAEBAQACAgIAJSUlAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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3**. Cho hình lập phương  có cạnh bằng 3 như hình vẽ bên.

a) .

b) .

c) .

d) 

**Phần 3. Trả lời ngắn**

**Câu 1.** Đồ thị hàm số  có đường tiệm cận đứng  và đường tiệm cận ngang . Tính .

**Câu 2**. Mỗi đợt xuất khẩu gạo của tỉnh  kéo dài trong  ngày.

Người ta thấy lượng gạo xuất khẩu theo ngày thứ  được xác định bởi

công thức:  (tấn) với .

Ngày thứ mấy lượng gạo xuất khẩu lớn nhất?

**Câu 3**. Ông A dự định sử dụng hết 6,7m2 kính để làm một bể cá bằng kính có dạng hình hộp chữ nhật không nắp, chiều dài gấp đôi chiều rộng (các mối ghép có kích thước không đáng kể). Bể cá có dung tích lớn nhất bằng bao nhiêu (kết quả làm tròn đến hàng phần trăm).

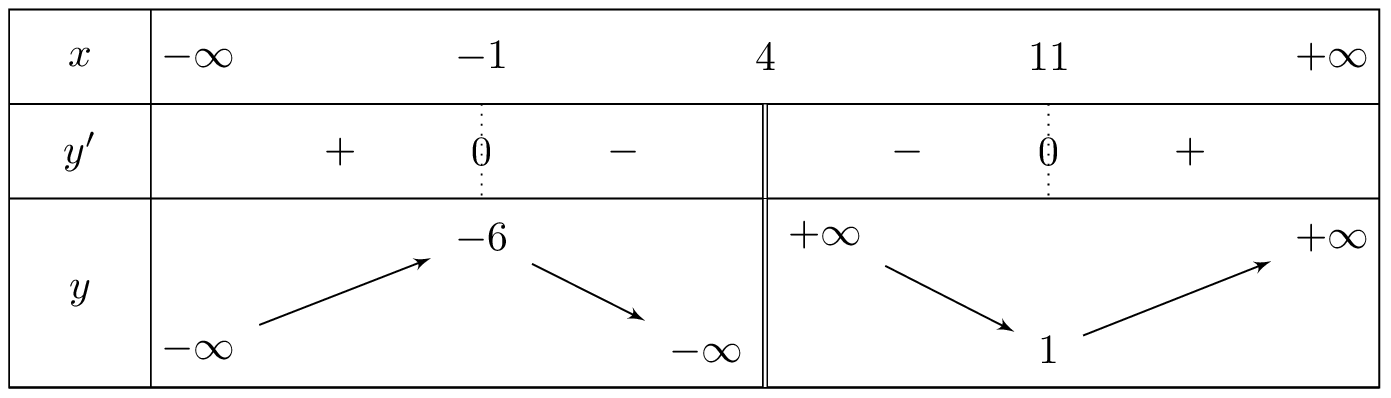
A room with a door and a wall with a red circle and a red flower

Description automatically generated with medium confidence**Câu 4.** Trong một căn phòng dạng hình hộp chữ nhật với chiều dài , rộng  và cao có cây quạt treo tường. Cây quạt treo chính gữa bức tường và cách trần , cây quạt  treo chính giữa bức tường và cách trần . Chọn hệ trục tọa độ như hình vẽ bên dưới ( đơn vị: mét). Hãy xác định tọa độ của .

**ĐỀ 4**

**PHẦN I. Câu trắc nghiệm nhiều phương án lựa chọn.**

1. Cho hàm số  xác định với mọi  có bảng biến thiên như hình vẽ dưới đây. Hàm số nghịch biến trên khoảng nào trong các khoảng sau?

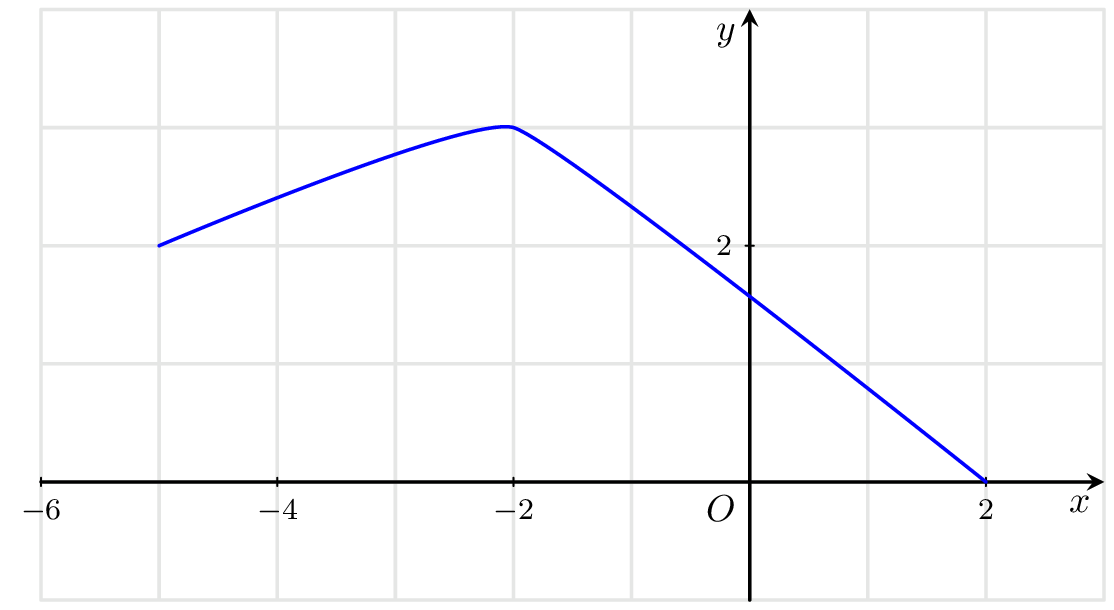


**A.** . **B.** . **C.** . **D.** .

1. Cho hàm số . Điểm cực tiểu của hàm số đã cho là

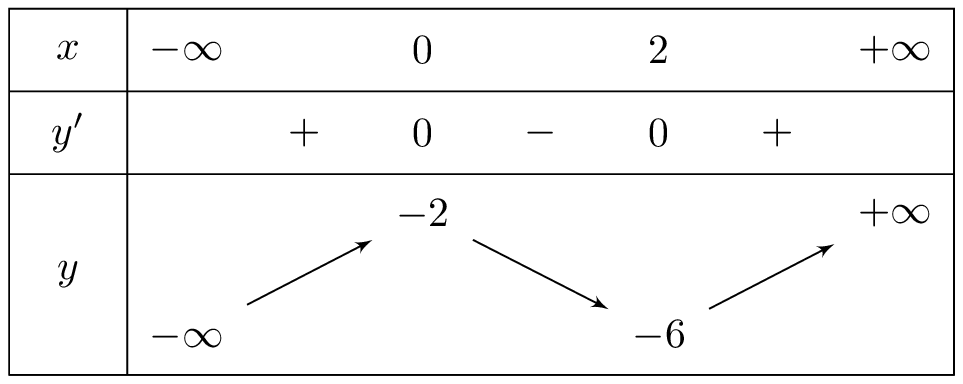
**A.** . **B.** . **C.** . **D.** .

1. Cho hàm số  có đồ thị trên đoạn  như hình vẽ. Gọi  và  lần lượt là giá trị lớn nhất và giá trị nhỏ nhất của hàm số đã cho trên đoạn . Tính .



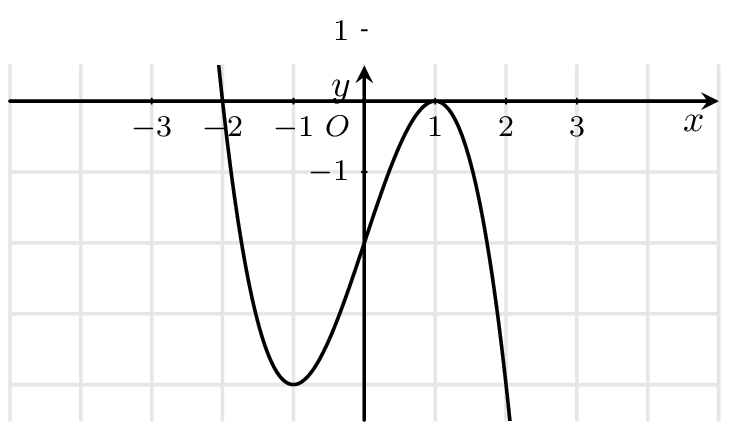
**A.** . **B.** . **C.** . **D.** .

1. Hàm số nào dưới đây có bảng biến thiên như sau



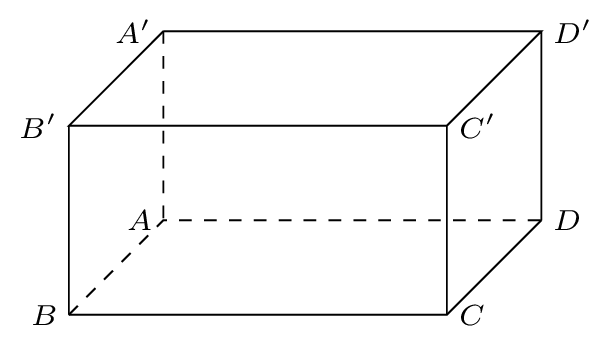
**A.** . **B.** . **C.** . **D.** .

1. Đồ thị như hình vẽ dưới đây là của hàm số nào?



**A.** . **B.** . **C.** . **D.** .

1. Cho hình hộp . Tìm khẳng định đúng.



**A.** . **B.** .

**C.** . **D.** .

1. Trong không gian với hệ tọa độ , cho vectơ .Tìm tọa độ vectơ .

**A.** . **B.** . **C.** . **D.** .

1. Trong không gian với hệ tọa độ , cho vectơ  và điểm .

Biết . Tìm tọa độ điểm .

**A.** . **B.** . **C.** . **D.** .

1. Trong không gian với hệ tọa độ , cho điểm . Tìm tọa độ hình chiếu của điểm  trên mặt phẳng .

**A.** . **B.** . **C.** . **D.** .

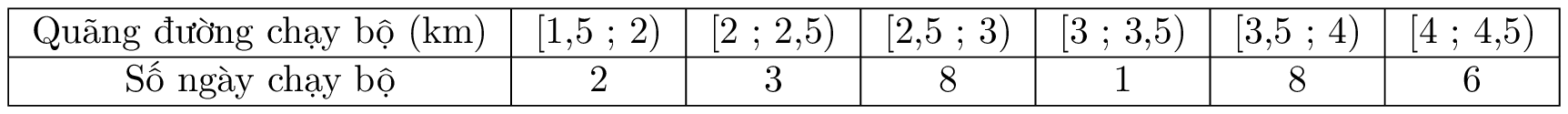
1. Trong hệ trục tọa độ , cho hai véctơ  và . Tích vô hướng  bằng

**A.** . **B.** . **C.** . **D.** .

1. Trong không gian với hệ tọa độ , cho hai vectơ  và .Tìm tọa độ vectơ .

**A.** . **B.** . **C.** . **D.** .

1. Cho mẫu số liệu ghép nhóm về quãng đường chạy bộ (km) và số ngày chạy bộ như sau:

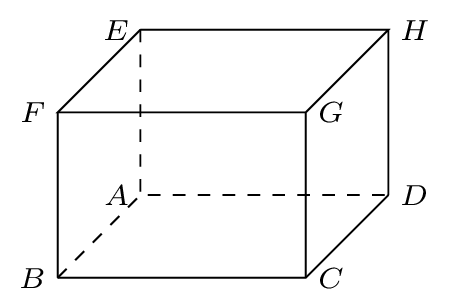


Khoảng biến thiên của mẫu số liệu ghép nhóm là

**A.** . **B.** . **C.** . **D.** .

**PHẦN II. Câu trắc nghiệm đúng sai.**

1. Cho hình lập phương  có . Xét tính đúng-sai của các khẳng định sau.



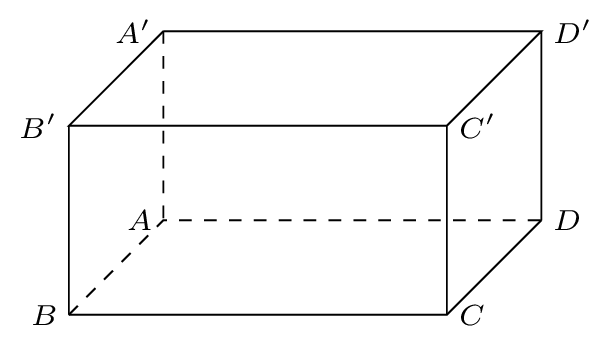
**a)** Số vectơ khác vectơ-không có điểm đầu và điểm cuối là các đỉnh của hình lập phương cùng hướng với vectơ  là .

**b)** Góc giữa  và  bằng .

**c)** .

**d)** .

1. Cho hình hộp chữ nhật  có . Xét tính đúng-sai của các khẳng định sau.



**a)** . **b)** .

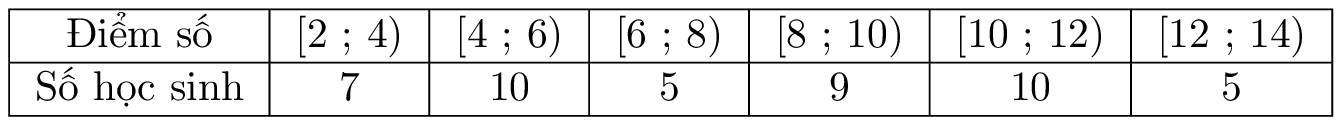
**c)** . **d)** .

1. Trong không gian , cho hai vectơ .

**a)** . **b)** .

**c)** . **d)** .

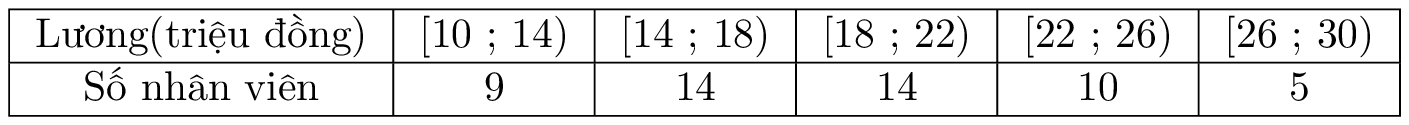
1. Cho bảng số liệu ghép nhóm về điểm số và số học sinh như hình dưới đây. Xét tính đúng-sai của các khẳng định sau (các kết quả làm tròn đến hàng phần trăm):



**a)** Số trung bình của mẫu số liệu bằng . **b)** Phương sai của mẫu số liệu bằng .

**c)** Độ lệch chuẩn của mẫu số liệu bằng . **d)** Khoảng tứ phân vị của mẫu số liệu bằng .

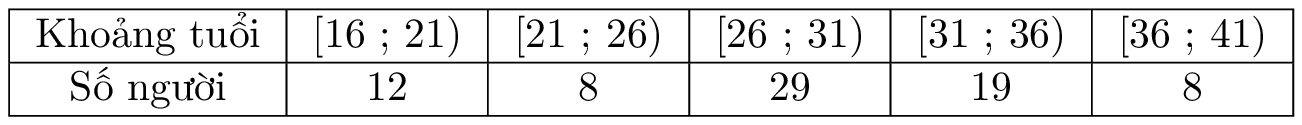
1. Cho bảng số liệu ghép nhóm về lương(triệu đồng) và số nhân viên như hình dưới đây. Xét tính đúng-sai của các khẳng định sau (các kết quả làm tròn đến hàng phần trăm):



**a)** Khoảng biến thiên của mẫu số liệu là 20. **b)** Tứ phân vị thứ nhất bằng .

**c)** Tứ phân vị thứ ba bằng . **d)** Khoảng tứ phân vị bằng .

1. Cho bảng số liệu ghép nhóm về khoảng tuổi và số người như hình dưới đây. Xét tính đúng-sai của các khẳng định sau (các kết quả làm tròn đến hàng phần trăm):

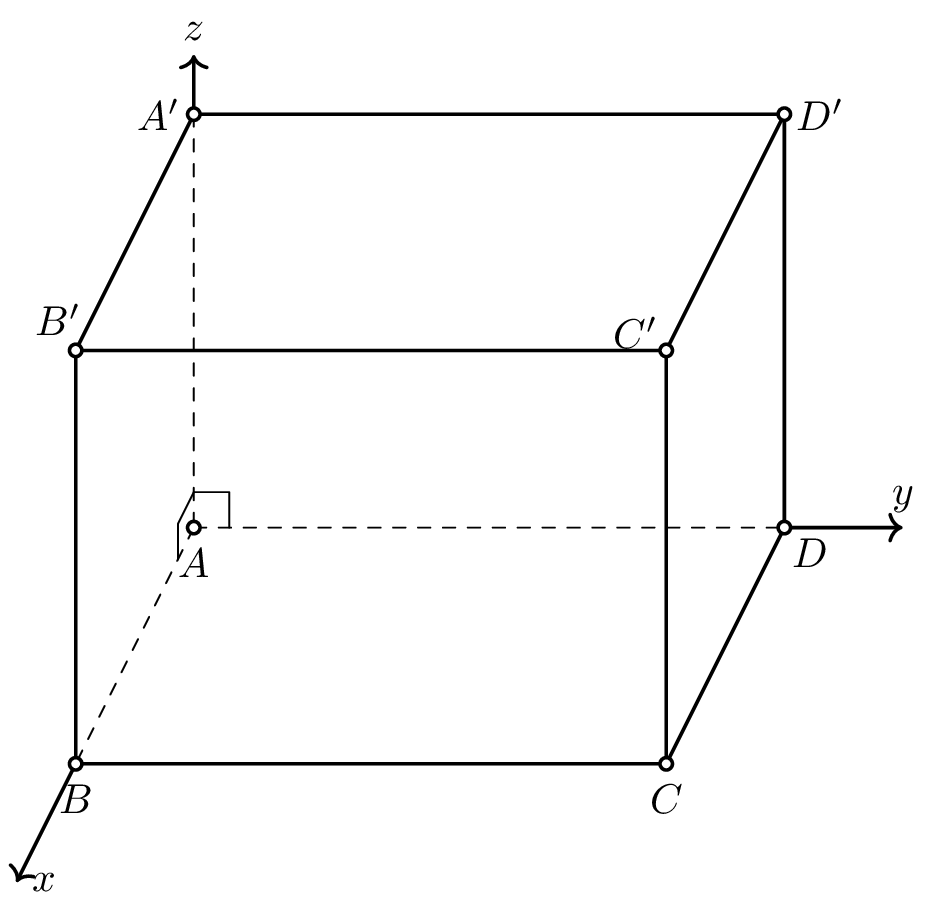


**a)** Khoảng biến thiên của mẫu số liệu là 25. **b)** Tứ phân vị thứ nhất bằng .

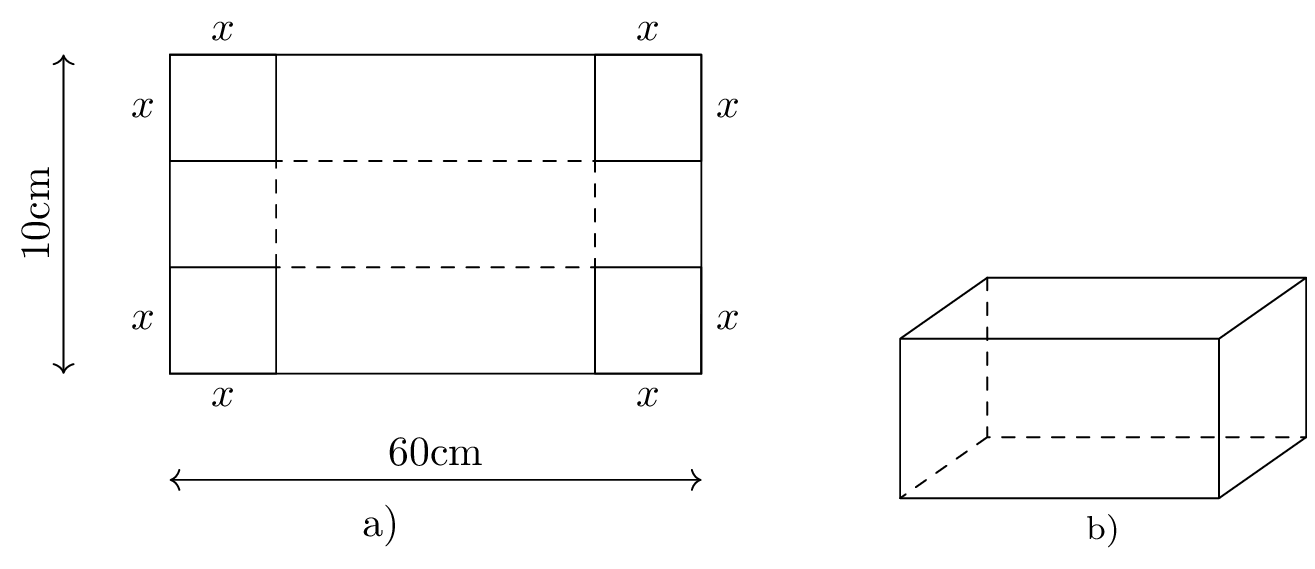
**c)** Tứ phân vị thứ ba bằng . **d)** Khoảng tứ phân vị bằng .

**PHẦN III. Câu trắc nghiệm trả lời ngắn.**

1. Cho hình hộp  có . Xét hệ trục tọa độ  có gốc  trùng với điểm , các điểm  lần lượt nằm trên các tia . Gọi  là trọng tâm của tam giác . Tính  (kết quả làm tròn đến hàng phần mười).



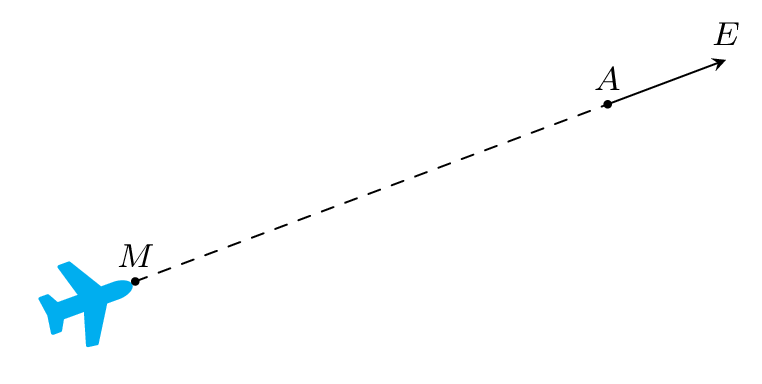
1. Cho hình hộp chữ nhật  có . Xét hệ trục tọa độ  có gốc  trùng với điểm , các điểm  lần lượt nằm trên các tia . Gọi  là tâm của hình bình hành . Tính  (kết quả làm tròn đến hàng phần mười).
2. Cho hàm số  có đường TCĐ và TCN lần lượt là x = a; y =b. Giá trị biểu thức T=3a+b là.
3. Giá trị nhỏ nhất của hàm số  trên đoạn  là.
4. Từ một tấm bìa hình chữ nhật có chiều rộng cm và chiều dài  cm như hình a, người ta cắt ở bốn góc bốn hình vuông có cạnh  với  và gấp lại để tạo thành chiếc hộp có dạng hình hộp chữ nhật không nắp như hình b. Tìm  để thể tích chiếc hộp là lớn nhất (kết quả làm tròn đến hàng phần mười).



1. Một chất điểm chuyển động có vận tốc tức thời  phụ thuộc vào thời gian  theo hàm số  (m/s). Trong khoảng thời gian từ  (s) đến  (s) chất điểm đạt vận tốc lớn nhất nhất bằng?
2. Tại một xí nghiệp chuyên sản xuất vật liệu xây dựng, nếu trong một ngày xí nghiệp sản xuất  sản phẩm thì phải bỏ ra các khoản chi phí bao gồm: 7 triệu đồng chi phí cố định; 0,8 triệu đồng chi phí cho mỗi mét khối sản phẩm và  triệu đồng chi phí bảo dưỡng máy móc. Biết rằng, mỗi ngày xí nghiệp sản xuất được tối đa 63  sản phẩm. Tìm chi phí trung bình (triệu đồng) trên mỗi mét sản phẩm thấp nhất mà xí nghiệp cần bỏ ra (làm tròn đến hàng phần trăm).

**Phần IV: TỰ LUẬN**

1. Tìm giá trị lớn nhất của hàm số  trên nửa khoảng ?
2. Trong không gian chọn hệ trục tọa độ cho trước, đơn vị đo là kilômét, một máy bay chiến đấu di chuyển với vận tốc và hướng không đổi từ điểm  đến điểm  trong 12 phút. Nếu máy bay tiếp tục giữ nguyên vận tốc và hướng bay sau  phút tiếp theo thì tọa độ của máy bay lúc này là . Kết quả của phép tính  (làm tròn đến hàng phần mười) bằng bao nhiêu?



-----HẾT-----

**ĐỀ 5**. **ÔN TẬP HỌC KÌ 1 TOÁN 12 NĂM HỌC 2024 – 2025**

**Phần 1. Trắc nghiệm nhiều phương án**

**Câu 1**. Cho hàm số  có bảng biến thiên như hình bên.

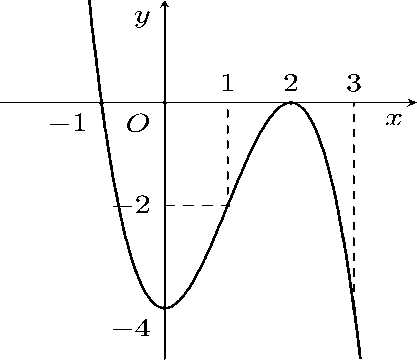
 Hàm số nghịch biến trên

khoảng nào dưới đây?

**A.** . **B.** .

**C.** . **D.** .

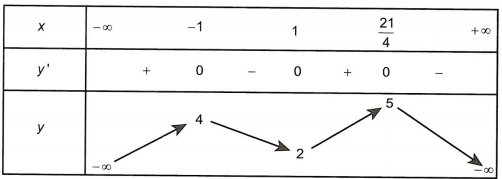
**Câu 2.** Cho hàm số  có đồ thị như hình bên.

Điểm cực đại của đồ thị hàm

số đã cho là

**A. . B. .**

**C. . D. .**

**Câu 3.** Cho hàm số  có bảng biến thiên như hình bên.

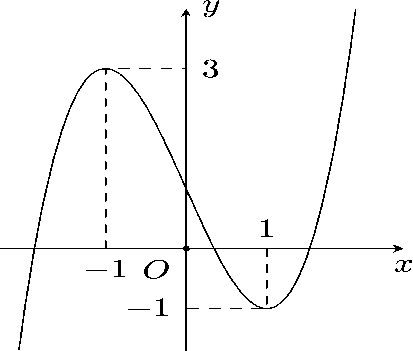
Giá trị lớn nhất của hàm số  trên khoảng  bằng

**A**. -1. **B**. 4. **C**. 5. **D**. 21/4.

**Câu 4.** Trong không gian , cho . Tọa độ điểm  là

**A**. . **B**. . **C**. . **D**. .

**Câu 5**. Hình bên là đồ thị của hàm số nào dưới đây ?

**A. **

**B. .**

**C.** .

**D.** 

A diagram of a cube with lines and points

Description automatically generated**Câu 6.** Cho hình hộp như hình vẽ bên. Mệnh đề nào sau đây đúng ?

**A**. .

**B.** .

**C**. .

**D**. .

**Câu 7**. Trong không gian , cho điểm . Hình chiếu vuông góc của điểm  trên mặt phẳng tọa độ  là điểm có tọa độ

A drawing of a cube with lines and letters

Description automatically generated **A.** . **B**. . **C**. . **D**. .

**Câu 8**. Một căn phòng hình hộp

chữ nhật  có

,  và 

Đặt hệ tọa độ như hình

bên. Người ta bắt một cái quạt tại vị trí

chính giữa bờ tường . Tọa

độ của điểm bắt quạt đối với hệ tọa

độ  trên là

**A**. . **B**. . **C**. . **D**. .

**Câu 9**. Trong không gian , cho , . Tọa độ vec tơ  là

**A**. . **B**. . **C**. . **D**. .

**Câu 10**.Doanh thu bán hàng trong 30 ngày được lựa chọn ngẫu nhiên của một cửa hàng được ghi lại ở bảng sau (đơn vị: triệu đồng):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Doanh thu |  |  |  |  |  |
| Số ngày | 5 | 4 | 3 | 10 | 8 |

Khoảng biển thiên của mẫu số liệu trên là

**A**. . **B**. . **C.** . **D**. .

**Phần 2. Trả lời đúng sai**

**Câu 1**. Tuổi thọ của một số linh kiện điện tử được sản xuất bởi hai phân xưởng được cho như sau

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tuổi thọ(năm) |  |  |  |  |  |
| Số linh kiện của phân xưởng 1 | 4 | 9 | 13 | 8 | 6 |
| Số linh kiện của phân xưởng 2 | 2 | 8 | 20 | 7 | 3 |

a) Cỡ mẫu của bảng số liệu của phân xưởng 1 là 40.

b)Tứ phân vị thứ nhất .

c) Giá trị đại diện của nhóm  là .

d) Dựa vào phương sai, mức độ phân tán của tuổi thọ các linh kiện điện tử được sản xuất bởi xưởng 1 hơn ở xưởng 2.

**Câu 2**. Trong không gian , cho hai vectơ .

a) . b) .

c) . d) (làm tròn đến hàng phần chục)

![A cube with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with a square and a square with

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAPMAAAC0CAYAAABBqxrrAAAACXBIWXMAABJ0AAASdAHeZh94AAAgAElEQVR4AQA6gcV+Afz8/P8CAgIAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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3**. Cho hình lập phương  có cạnh bằng  như hình vẽ bên.

a) .

b) .

c) .

d) .

**Phần 3. Trả lời ngắn**

**Câu 1.** Đồ thị hàm số  có đường tiệm cận đứng  và đường tiệm cận ngang . Tính .

**Câu 2**. Doanh thu của một cửa hàng kinh doanh tạp hoá tư nhân trong

tháng 12 của ngày thứ ( ) được cho bởi hàm

(triệu đồng). Hỏi doanh thu thấp nhất của cửa hàng trong tháng 12 là bao nhiêu triệu đồng.

**Câu 3**. Anh Bình dự định sử dụng hết 9,5m2 kính để làm một bể cá bằng kính có dạng hình hộp chữ nhật không nắp, chiều dài gấp đôi chiều rộng (các mối ghép có kích thước không đáng kể). Bể cá có dung tích lớn nhất bằng bao nhiêu (kết quả làm tròn đến hàng phần trăm).

**Câu 4**. Ông An bắt một bóng đèn ở vị trí

điểm  trong không của một căn phòng.

Với hệ toạ độ  đã chọn như hình bên.

Bóng đèn được treo bởi 3 dây *AB, AE, AD*

và chịu tác dụng bởi 3 lực

. Các điểm

là các đỉnh của hình hộp  biết , . Độ lớn của hợp lực tác dụng lên bóng đén là . Tính độ lớn của hợp lực tác dụng lên bóng đèn.

**Phần 4. Tự luận.**

**Câu 1.** Tìm giá trị lớn nhất của hàm số  trên khoảng

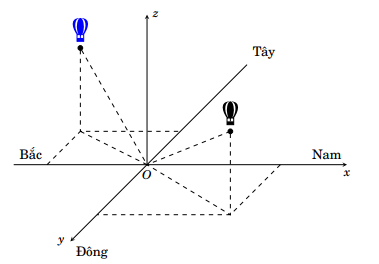
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**Câu 2**. Hai chiếc khinh khí cầu bay lên từ cùng một địa điểm. Chiếc thứ nhất cách điểm xuất phát  về phía nam và  về phía đông, đồng thời cách mặt đất . Chiếc thứ hai nằm cách điểm xuất phát  về phía bắc và  về phía tây, đồng thời cách mặt đất 5. Chọn hệ trục  với gốc  đặt tại điểm xuất phát của hai khinh khí cầu, mặt phẳng  trùng với mặt đất với trục  hướng về phía nam, trục  hướng về phía đông và trục  hướng thẳng đứng lên trời (Hình bên dưới), đơn vị đo lấy theo kilomet.

a ) Khinh khí cầu thứ nhất tại

vị trí là điểm . Tìm toạ độ điểm A.

b) Khinh khí cầu thứ hai tại



vị trí là điểm . Tìm toạ độ điểm *B*.

c) Người ta đặt một máy phát ra tín

hiệu tại điểm *M* thuộc mặt phẳng . Biết rằng để tín hiệu thu được tốt nhất khi và chỉ khi  nhỏ nhất. Tìm toạ độ điểm .