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QUESTION 1

What is the slope of a line described by $3x + 2y - 12 = 0$?

- A. $\frac{3}{2}$ B. $-\frac{3}{2}$
- C. $\frac{2}{3}$
- D. $-\frac{2}{3}$

Correct Answer: B

The slope can be identified by adapting the equation to the formal equation of a line or $y=mx+b$

$$\begin{aligned}2y + 3x - 12 &= 0 \\2y &= -3x + 12 \\ \frac{2y}{2} &= \frac{-3x}{2} + \frac{12}{2} \\ y &= -\frac{3}{2}x + 6\end{aligned}$$

QUESTION 2

A student obtained an average of 86 for a series of seven assignments. Six of the grades were 85, 78, 83, 91, 89, and 86. The grade of the seventh assignment is:

- A. 74
- B. 86
- C. 90
- D. 98

Correct Answer: C

From the information in the problem,

$$\text{Average} = \frac{\text{Sum of Terms}}{\text{Number of Terms}}$$

$$\begin{aligned}86 &= \frac{85 + 78 + 83 + 91 + 89 + 86 + x}{7} = \frac{512 + x}{7} \\ x &= 86 \times 7 - 512 = 602 - 512 = 90.\end{aligned}$$



QUESTION 3

Evaluate the following definite integral:

$$\int_1^9 3t^3 dt$$

- A. 4920
- B. 2560
- C. 2179
- D. 1659

Correct Answer: A

QUESTION 4

What is the equation of a line that passes through the point (2, 3) and has a slope of -1/2?

A. $y = -\frac{1}{2}x + 2$ B. $y = -\frac{1}{2}x - 2$ C. $y = \frac{1}{2}x + 2$ D. $y = \frac{1}{2}x - 2$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

QUESTION 5

The three most commonly used temperature scales are Fahrenheit (°F), Celsius (°C), and Kelvin (K). They are based on the freezing point and boiling point of water as shown below.



Temperature Scale	Freezing Point of Water	Boiling Point of Water
Fahrenheit (°F)	32	212
Celsius (°C)	0	100
Kelvin (K)	273	373

The formula for temperature conversion between the Fahrenheit and Celsius scales is

$$T_F = \frac{9}{5}T_C + 32$$

What is the slope of the conversion formula relating temperature in Fahrenheit to temperature in Celsius?

A. $\frac{9\text{ }^\circ\text{F}}{5\text{ }^\circ\text{C}}$

B. $\frac{5\text{ }^\circ\text{F}}{9\text{ }^\circ\text{C}}$

C. $\frac{9\text{ }^\circ\text{C}}{5\text{ }^\circ\text{F}}$

D. $\frac{5\text{ }^\circ\text{C}}{9\text{ }^\circ\text{F}}$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

When the equation is Adapted to the equation of a line, it can readily be seen that the slope is. However, because the equation has physical significance, it is important that the units associated with the slope are clearly indicated. Because the slope is the ratio.

$$T_F = \frac{9}{5}T_C + 32$$

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