ALBERTA MATH 10C · UNIT 5 · 10 QUESTIONS

Linear Functions — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **An equation of the line with slope -2 that passes through the point (3, 4) is**

- A y = -2x - 2
- B y = 2x + 10
- C y = -2x + 10
- D y = -2x + 4

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2 **The equation 4x - 3y = 12 written in slope-intercept form is**

- **A** $y = \frac{4}{3}x - 4$
- **B** $y = -\frac{4}{3}x - 4$
- **C** $y = \frac{4}{3}x + 4$
- **D** $y = \frac{3}{4}x - 4$

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3 **The line shown is the graph of an equation. That equation is**

- **A** $y = \frac{4}{3}x - 4$
- **B** $y = -\frac{4}{3}x - 4$
- **C** $y = \frac{4}{3}x + 4$
- **D** $y = \frac{3}{4}x - 4$

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4 **The slope of the line passing through the points (0, -4) and (3, 5) is _____**

ANSWER

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5 **The x-intercept of the line with equation y = -3x + 15 is**

A -5

B 15

C -15

D 5

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6 **A point that lies on the line with equation y = 3x - 7 is**

A (0, 7)

B (1, 4)

C (2, -1)

D (3, 0)

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7 **Renting a car costs a flat fee of 45 dollars plus 0.25 dollars per kilometre driven. The total cost, in dollars, of renting the car and driving 240 km is ____**

ANSWER _____

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8 **Which equation represents the line shown?**

- **A** $y = -3x + 10$
- **B** $y = -3x + 4$
- **C** $y = 3x + 4$
- **D** $y = -x + 8$

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9 **An equation of the line perpendicular to $y = -4x + 1$ that passes through the point (0, 6) is**

- **A** $y = 4x + 6$
- **B** $y = \frac{1}{4}x + 6$
- **C** $y = -4x + 6$
- **D** $y = \frac{1}{4}x - 6$

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10 **A candle is 24 cm tall and burns down at a rate of 1.5 cm per hour. The number of hours it takes for the candle to reach a height of 9 cm is _____**

ANSWER

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ANSWER KEY

1.	C	**5.**	D	**9.**	B
2.	A	**6.**	C	**10.**	10
3.	A	**7.**	105		
4.	3	**8.**	A		

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