NOVA SCOTIA MATHEMATICS AT WORK 12 · UNIT C · 10 QUESTIONS

Linear Relationships — 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 **Find the slope of the line through (1, 3) and (5, 19).**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Find the slope of the line through (0, 7) and (2, 13).**

ANSWER _____

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3 **Find the slope of the line through (3, 5) and (6, 20).**

ANSWER _____

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4 **If a cost is 5 dollars per item plus a 10 dollar fee, the cost for n items is**

- A 5 n plus 10
- B 10 n plus 5
- C 5 n minus 10
- D 15 n

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5 **The x intercept is the point where y equals**

- A 1
- B 0
- C the slope
- D the y intercept

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6 **To graph a line from its equation, a useful first step is to**

- A find the area
- B find the volume
- C find two points on the line
- D measure the angle

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7 **If y increases by 3 whenever x increases by 1, the slope is**

- A 1 ÷ 3
- B -3
- C 0
- D 3

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8 **A rate of change of 0 means the quantity is**

A constant

B increasing

C decreasing

D undefined

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9 **A direct variation has a graph through**

A only positive values

B the origin

C a horizontal line

D a vertical line

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10 **The equation of a line through the origin with slope 4 is**

A y equals x + 4

B y equals 4

C y equals 4x

D x equals 4

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ANSWER KEY

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

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