

Section 9-4: The Slope of a Line

Finding the Slope of a Line

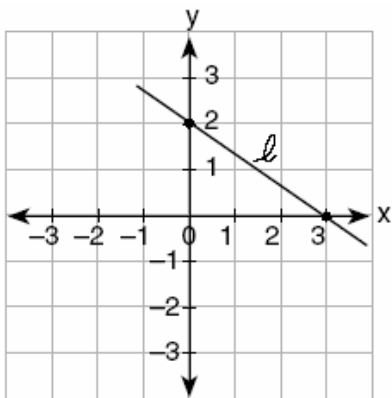
1. 080417a, P.I. A.A.32

If the value of dependent variable y increases as the value of independent variable x increases, the graph of this relationship could be a

- [A] line with a positive slope
[B] vertical line [C] horizontal line
[D] line with a negative slope

2. 010115a, P.I. 8.G.13

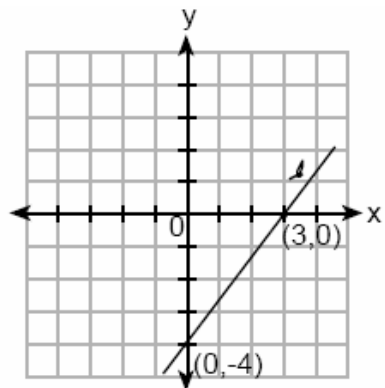
What is the slope of line ℓ in the accompanying diagram?



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

3. 069918a, P.I. 8.G.13

What is the slope of line ℓ shown in the accompanying diagram?



- [A] $-\frac{3}{4}$ [B] $\frac{4}{3}$ [C] $\frac{3}{4}$ [D] $-\frac{4}{3}$

4. fall0716ia, P.I. A.A.33

What is the slope of the line containing the points (3,4) and (-6,10)?

- [A] $-\frac{3}{2}$ [B] 2 [C] $-\frac{2}{3}$ [D] $\frac{1}{2}$

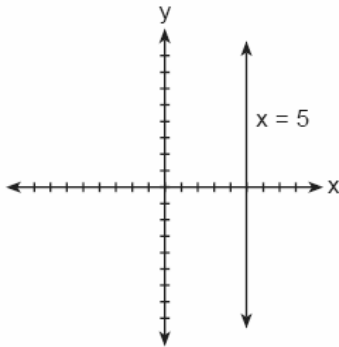
5. 060618a

If a line is horizontal, its slope is

- [A] negative [B] 1
[C] undefined [D] 0

6. 060012a, P.I. A.A.37

The accompanying figure shows the graph of the equation $x = 5$.



What is the slope of the line $x = 5$?

- [A] 5 [B] undefined [C] 0 [D] -5

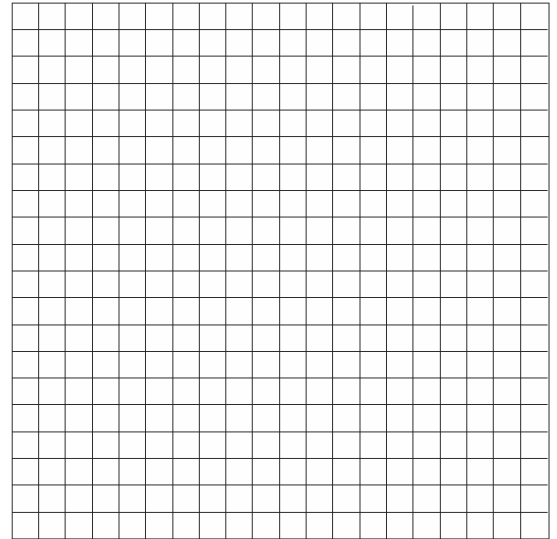
7. 060613a, P.I. A.A.36

Which statement describes the graph of $x = 4$?

- [A] It has a slope of 4.
[B] It passes through the point (0, 4).
[C] It is parallel to the x -axis.
[D] It is parallel to the y -axis.

8. 010024a

A straight line with slope 5 contains the points (1,2) and (3, K). Find the value of K .
[The use of the accompanying grid is optional.]



9. 080728a

Line segment AB has a slope of $\frac{3}{4}$. If the coordinates of point A are (2,5), the coordinates of point B could be

- [A] (6,2) [B] (5,9)
[C] (6,8) [D] (-1,1)

[1] A _____

[2] A _____

[3] B _____

[4] C _____

[5] D _____

[6] B _____

[7] D _____

[2] 12 and an appropriate explanation is given.

[1] The student uses an appropriate method, such as showing $\frac{k-2}{3-1} = 5$ or graphing of a

line through (1,2) having a slope of 5, but the correct answer is not found.

or [1] 12 and no explanation is given.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[8] incorrect procedure. _____

[9] C _____