

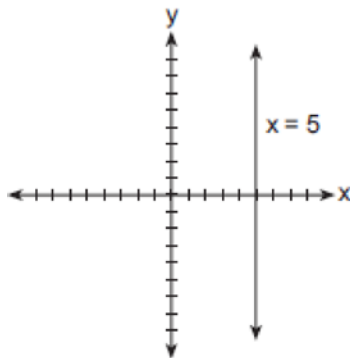
A.A.37: Slope 1: Determine the slope of a line, given its equation in any form

- 1 What is the slope of a line represented by the equation $2y = x - 4$?
 - 1) 1
 - 2) $\frac{1}{2}$
 - 3) -1
 - 4) $-\frac{1}{2}$
- 2 What is the slope of the line whose equation is $2y = 5x + 4$?
 - 1) 5
 - 2) 2
 - 3) $\frac{5}{2}$
 - 4) $\frac{2}{5}$
- 3 What is the slope of the line represented by the equation $4x + 3y = 7$?
 - 1) $\frac{7}{4}$
 - 2) $\frac{7}{3}$
 - 3) $-\frac{3}{4}$
 - 4) $-\frac{4}{3}$
- 4 What is the slope of the line represented by the equation $4x + 3y = 12$?
 - 1) $\frac{4}{3}$
 - 2) $\frac{3}{4}$
 - 3) $-\frac{3}{4}$
 - 4) $-\frac{4}{3}$
- 5 What is the slope of the line whose equation is $3x - 7y = 9$?
 - 1) $-\frac{3}{7}$
 - 2) $\frac{3}{7}$
 - 3) $-\frac{7}{3}$
 - 4) $\frac{7}{3}$
- 6 What is the slope of the line whose equation is $3x - 4y - 16 = 0$?
 - 1) $\frac{3}{4}$
 - 2) $\frac{4}{3}$
 - 3) 3
 - 4) -4

- 7 What is the slope of the linear equation $5y - 10x = -15$?
- 1) 10
 - 2) 2
 - 3) -10
 - 4) -15

- 8 The line represented by the equation $2y - 3x = 4$ has a slope of
- 1) $-\frac{3}{2}$
 - 2) 2
 - 3) 3
 - 4) $\frac{3}{2}$

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



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

- 1) 5
- 2) -5
- 3) 0
- 4) undefined

- 10 Which linear equation represents a line that has a slope of $\frac{2}{3}$?
- 1) $-2y = -3x + 6$
 - 2) $-3y = 2x + 6$
 - 3) $3y = -2x + 6$
 - 4) $3y = 2x + 6$

A.A.37: Slope 1: Determine the slope of a line, given its equation in any form
Answer Section

1 ANS: 2

$$y = \frac{1}{2}x - 2$$

REF: 011409ia

2 ANS: 3

$$\frac{2y}{2} = \frac{5x}{2} + \frac{4}{2}$$

To solve for y, divide the equation by 2.

$$y = \frac{5}{2}x + 2$$

REF: 010203a

3 ANS: 4

$$m = \frac{-A}{B} = \frac{-4}{3}$$

REF: 011516ia

4 ANS: 4

$$m = \frac{-A}{B} = \frac{-4}{3}$$

REF: 061319ia

5 ANS: 2

$$m = \frac{-A}{B} = \frac{-3}{-7} = \frac{3}{7}$$

REF: 011122ia

6 ANS: 1

$$m = -\frac{A}{B} = -\left(\frac{3}{-4}\right) = \frac{3}{4}$$

REF: 089919a

7 ANS: 2

$$m = -\frac{A}{B} = -\left(\frac{-10}{5}\right) = 2$$

REF: 060205a

8 ANS: 4

$$m = \frac{-A}{B} = \frac{-(-3)}{2} = \frac{3}{2}$$

REF: 061212ia

9 ANS: 4

REF: 060012a

10 ANS: 4

REF: 061509ia