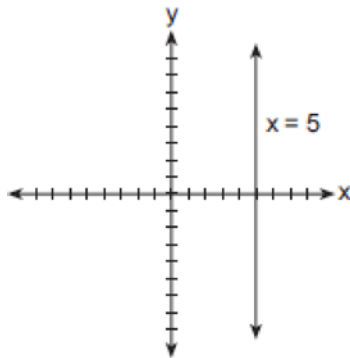


**A.A.37: Slope 2: Determine the slope of a line, given its equation in any form**

- 1 What is the slope of a line represented by the equation  $2y = x - 4$ ?
- 2 What is the slope of the line whose equation is  $2y = 5x + 4$ ?
- 3 What is the slope of the line represented by the equation  $4x + 3y = 7$ ?
- 4 What is the slope of the line represented by the equation  $4x + 3y = 12$ ?
- 5 What is the slope of the line whose equation is  $3x - 7y = 9$ ?
- 6 What is the slope of the line whose equation is  $3x - 4y - 16 = 0$ ?
- 7 What is the slope of the linear equation  $5y - 10x = -15$ ?
- 8 The line represented by the equation  $2y - 3x = 4$  has a slope of
- 9 The accompanying figure shows the graph of the equation  $x = 5$ .



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

- 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 2: Determine the slope of a line, given its equation in any form**  
**Answer Section**

1 ANS:

$$\frac{1}{2}$$

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

REF: 011409ia

2 ANS:

$$\frac{5}{2}$$

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

To solve for y, divide the equation by 2.

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

REF: 010203a

3 ANS:

$$-\frac{4}{3}$$

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

REF: 011516ia

4 ANS:

$$-\frac{4}{3}$$

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

REF: 061319ia

5 ANS:

$$\frac{3}{7}$$

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

REF: 011122ia

6 ANS:

$$\frac{3}{4}$$

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

REF: 089919a

7 ANS:

2

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

REF: 060205a

8 ANS:

 $\frac{3}{2}$ 

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

REF: 061212ia

9 ANS:

undefined

REF: 060012a

10 ANS: 4

REF: 061509ia