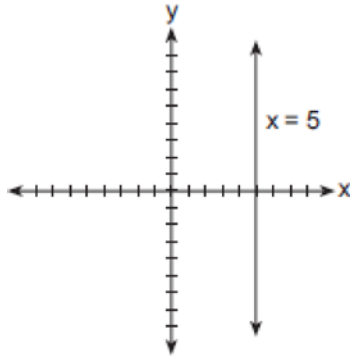


S.ID.C.7: Slope 2

- 1 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

- 2 What is the slope of a line represented by the equation $2y = x - 4$?

1) 1 2) $\frac{1}{2}$ 3) -1 4) $-\frac{1}{2}$

- 3 What is the slope of the line whose equation is $2y = 5x + 4$?

1) 5 2) 2 3) $\frac{5}{2}$ 4) $\frac{2}{5}$

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

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

- 6 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) $\frac{7}{3}$

- 7 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

- 8 What is the slope of the linear equation $5y - 10x = -15$?

1) 10 2) 2 3) -10 4) -15

- 9 The line represented by the equation $2y - 3x = 4$ has a slope of

1) $-\frac{3}{2}$ 2) 2 3) 3 4) $\frac{3}{2}$

- 10 What is the slope of the line whose equation is $4x = 3(y + 8)$?

1) $\frac{4}{3}$ 2) $\frac{3}{4}$ 3) $-\frac{4}{3}$ 4) $-\frac{3}{4}$

- 11 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) $3y = 2x + 6$

- 12 The line $3x - 2y = 12$ has

1) a slope of $\frac{3}{2}$ and a y -intercept of -6 2) a slope of $-\frac{3}{2}$ and a y -intercept of 6 3) a slope of 3 and a y -intercept of -2 4) a slope of -3 and a y -intercept of -6

S.ID.C.7: Slope 2

Answer Section

1 ANS: 4 REF: 060012a

2 ANS: 2

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

REF: 011409ia

3 ANS: 3

To solve for y , divide the equation by 2.

$$\begin{aligned}\frac{2y}{2} &= \frac{5x}{2} + \frac{4}{2} \\ y &= \frac{5}{2}x + 2\end{aligned}$$

REF: 010203a

4 ANS: 4

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

REF: 011516ia

5 ANS: 4

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

REF: 061319ia

6 ANS: 2

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

REF: 011122ia

7 ANS: 1

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

REF: 089919a

8 ANS: 2

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

REF: 060205a

9 ANS: 4

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

REF: 061212ia

10 ANS: 1

$$4x = 3y + 24$$

$$4x - 24 = 3y$$

$$y = \frac{4}{3}x - 8$$

REF: 061615ia

11 ANS: 4

REF: 061509ia

12 ANS: 1

$$m = -\frac{A}{B} = -\left(\frac{3}{-2}\right) = \frac{3}{2}. \quad y\text{-intercept} = \frac{C}{B} = \frac{12}{-2} = -6.$$

REF: 060428a