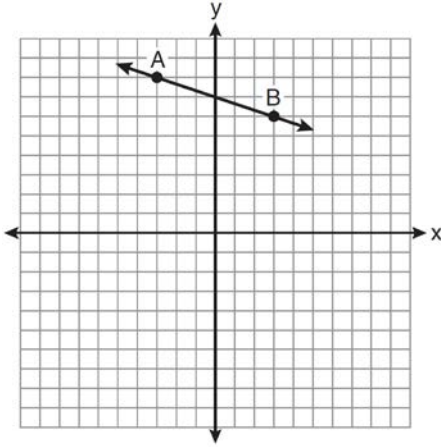


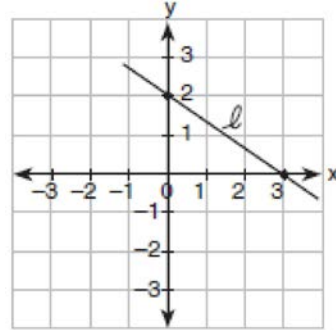
S.ID.C.7: Slope 1b

- 1 If a line is horizontal, its slope is
- 2 What is the slope of the line containing the points (3,4) and (-6, 10)?
- 3 What is the slope of the line that passes through the points (-6, 1) and (4, -4)?
- 4 What is the slope of the line that passes through the points (2,5) and (7,3)?
- 5 What is the slope of the line passing through the points (-2,4) and (3,6)?
- 6 What is the slope of the line that passes through the points (3,5) and (-2,2)?
- 7 What is the slope of the line that passes through the points (2, -3) and (5, 1)?
- 8 What is the slope of the line that passes through the points (-5,4) and (15, -4)?
- 9 What is the slope of the line that passes through the points (4, -7) and (9, 1)?
- 10 What is the slope of a line that passes through the points (-2, -7) and (-6, -2)?
- 11 What is the slope of a line passing through points (-7,5) and (5, -3)?
- 12 A line with a slope of $\frac{1}{3}$ passes through the point (3,6). Which point also lies on this line?
1) (6,3) 2) (7,6) 3) (-3, -3) 4) (-6,3)
- 13 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
1) (6,8) 2) (5,9) 3) (-1,1) 4) (6,2)

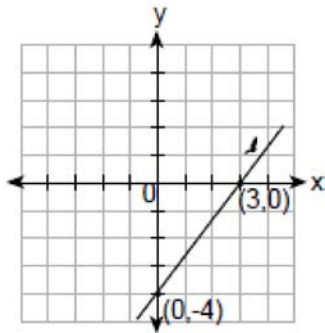
- 14 What is the slope of the line passing through the points A and B , as shown on the graph below?



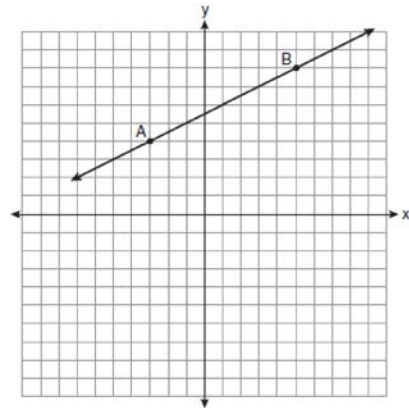
- 16 What is the slope of line ℓ in the accompanying diagram?



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



- 17 In the diagram below, what is the slope of the line passing through points A and B ?



S.ID.C.7: Slope 1b**Answer Section**

1 ANS:

0

REF: 060618a

2 ANS:

 $-\frac{2}{3}$

$$m = \frac{4 - 10}{3 - (-6)} = -\frac{2}{3}$$

REF: fall0716ia

3 ANS:

 $-\frac{1}{2}$

$$m = \frac{1 - (-4)}{-6 - 4} = -\frac{1}{2}$$

REF: 060820ia

4 ANS:

 $-\frac{2}{5}$

$$m = \frac{5 - 3}{2 - 7} = -\frac{2}{5}$$

REF: 010913ia

5 ANS:

 $\frac{2}{5}$

$$m = \frac{6 - 4}{3 - (-2)} = \frac{2}{5}$$

REF: 061110ia

6 ANS:

 $\frac{3}{5}$

$$m = \frac{5 - 2}{3 - (-2)} = \frac{3}{5}$$

REF: 061004ia

7 ANS:

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

$$m = \frac{-3-1}{2-5} = \frac{-4}{-3} = \frac{4}{3}$$

REF: 011215ia

8 ANS:

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

$$m = \frac{4-(-4)}{-5-15} = -\frac{2}{5}$$

REF: 080915ia

9 ANS:

$$\frac{8}{5}$$

$$m = \frac{-7-1}{4-9} = \frac{-8}{-5} = \frac{8}{5}$$

REF: 081310ia

10 ANS:

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

$$m = \frac{-7-(-2)}{-2-(-6)} = \frac{-5}{4}$$

REF: 061410ia

11 ANS:

$$-\frac{2}{3}$$

$$m = \frac{5-(-3)}{-7-5} = \frac{8}{-12} = -\frac{2}{3}$$

REF: 081411ia

12 ANS: 4

$$\frac{6-3}{3-(-6)} = \frac{3}{9} = \frac{1}{3}$$

REF: 080828a

13 ANS: 1

$$\frac{8-5}{6-2} = \frac{3}{4}$$

REF: 080728a

14 ANS:

$$-\frac{1}{3}$$

$$A(-3,8) \text{ and } B(3,6). \quad m = \frac{8-6}{-3-3} = \frac{2}{-6} = -\frac{1}{3}$$

REF: 081005ia

15 ANS:

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

$$m = \frac{-4-0}{0-3} = \frac{4}{3}$$

REF: 069918a

16 ANS:

$$-\frac{2}{3}$$

$$m = \frac{2-0}{0-3} = -\frac{2}{3}$$

REF: 010115a

17 ANS:

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

$$A(-3,4) \text{ and } B(5,8). \quad m = \frac{4-8}{-3-5} = \frac{-4}{-8} = \frac{1}{2}$$

REF: 011007ia