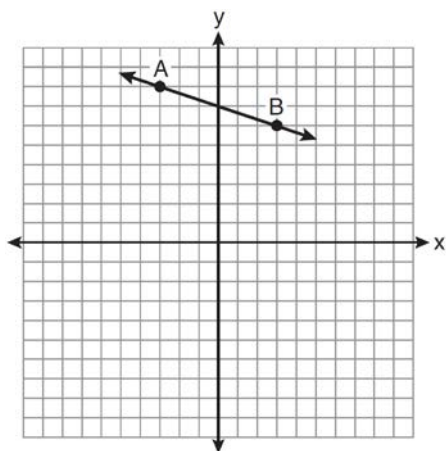
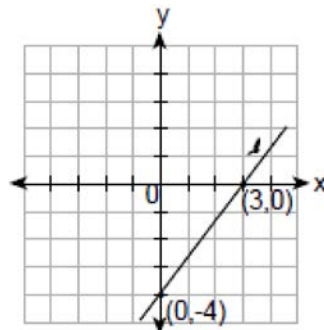


**A.A.33: Slope 2: Determine the slope of a line, given the coordinates of two points on the line**

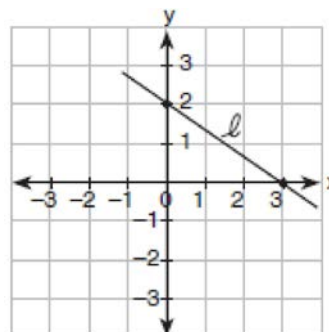
- 1 What is the slope of the line containing the points  $(3, 4)$  and  $(-6, 10)$ ?
- 2 What is the slope of the line that passes through the points  $(-6, 1)$  and  $(4, -4)$ ?
- 3 What is the slope of the line that passes through the points  $(2, 5)$  and  $(7, 3)$ ?
- 4 What is the slope of the line passing through the points  $(-2, 4)$  and  $(3, 6)$ ?
- 5 What is the slope of the line that passes through the points  $(3, 5)$  and  $(-2, 2)$ ?
- 6 What is the slope of the line that passes through the points  $(2, -3)$  and  $(5, 1)$ ?
- 7 What is the slope of the line that passes through the points  $(-5, 4)$  and  $(15, -4)$ ?
- 8 What is the slope of the line that passes through the points  $(4, -7)$  and  $(9, 1)$ ?
- 9 What is the slope of a line that passes through the points  $(-2, -7)$  and  $(-6, -2)$ ?
- 10 What is the slope of a line passing through points  $(-7, 5)$  and  $(5, -3)$ ?
- 11 What is the slope of the line passing through the points  $A$  and  $B$ , as shown on the graph below?



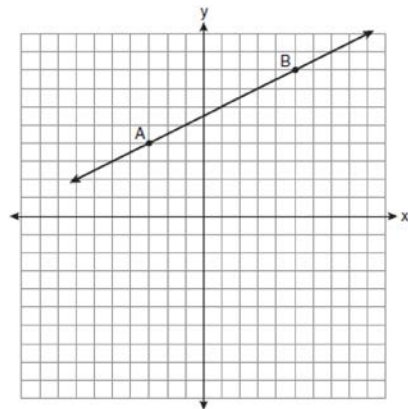
- 12 What is the slope of line  $\ell$  shown in the accompanying diagram?



- 13 What is the slope of line  $\ell$  in the accompanying diagram?



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



**A.A.33: Slope 2: Determine the slope of a line, given the coordinates of two points on the line****Answer Section**

1 ANS:

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

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

REF: fall0716ia

2 ANS:

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

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

REF: 060820ia

3 ANS:

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

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

REF: 010913ia

4 ANS:

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

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

REF: 061110ia

5 ANS:

$$\frac{3}{5}$$

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

REF: 061004ia

6 ANS:

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

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

REF: 011215ia

7 ANS:

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

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

REF: 080915ia

8 ANS:

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

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

REF: 081310ia

9 ANS:

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

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

REF: 061410ia

10 ANS:

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

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

REF: 081411ia

11 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

12 ANS:

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

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

REF: 069918a

13 ANS:

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

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

REF: 010115a

14 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