

A.A.33: Slope 1: 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)?
 - 1) $\frac{1}{2}$
 - 2) 2
 - 3) $-\frac{2}{3}$
 - 4) $-\frac{3}{2}$
- 2 What is the slope of the line that passes through the points (−6, 1) and (4, −4)?
 - 1) −2
 - 2) 2
 - 3) $-\frac{1}{2}$
 - 4) $\frac{1}{2}$
- 3 What is the slope of the line that passes through the points (2, 5) and (7, 3)?
 - 1) $-\frac{5}{2}$
 - 2) $-\frac{2}{5}$
 - 3) $\frac{8}{9}$
 - 4) $\frac{9}{8}$
- 4 What is the slope of the line passing through the points (−2, 4) and (3, 6)?
 - 1) $-\frac{5}{2}$
 - 2) $-\frac{2}{5}$
 - 3) $\frac{2}{5}$
 - 4) $\frac{5}{2}$
- 5 What is the slope of the line that passes through the points (3, 5) and (−2, 2)?
 - 1) $\frac{1}{5}$
 - 2) $\frac{3}{5}$
 - 3) $\frac{5}{3}$
 - 4) 5
- 6 What is the slope of the line that passes through the points (2, −3) and (5, 1)?
 - 1) $-\frac{2}{3}$
 - 2) $\frac{2}{3}$
 - 3) $-\frac{4}{3}$
 - 4) $\frac{4}{3}$

- 7 What is the slope of the line that passes through the points $(-5, 4)$ and $(15, -4)$?

1) $-\frac{2}{5}$
 2) 0
 3) $-\frac{5}{2}$
 4) undefined

- 8 What is the slope of the line that passes through the points $(4, -7)$ and $(9, 1)$?

1) $\frac{5}{8}$
 2) $\frac{8}{5}$
 3) $-\frac{6}{12}$
 4) $-\frac{13}{6}$

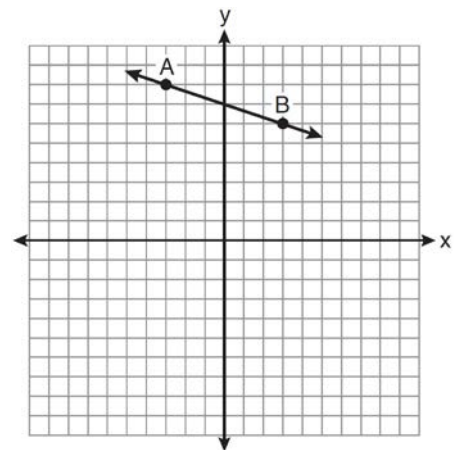
- 9 What is the slope of a line that passes through the points $(-2, -7)$ and $(-6, -2)$?

1) $-\frac{4}{5}$
 2) $-\frac{5}{4}$
 3) $\frac{8}{9}$
 4) $\frac{9}{8}$

- 10 What is the slope of a line passing through points $(-7, 5)$ and $(5, -3)$?

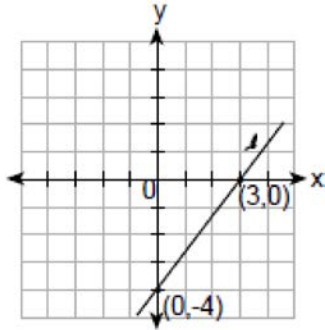
1) $-\frac{3}{2}$
 2) $-\frac{2}{3}$
 3) $\frac{2}{3}$
 4) $\frac{3}{2}$

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



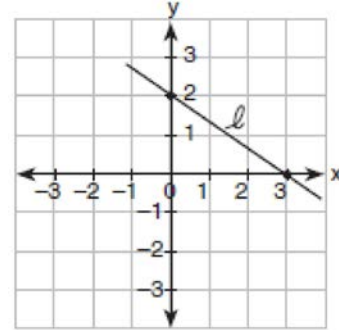
1) -3
 2) $-\frac{1}{3}$
 3) 3
 4) $\frac{1}{3}$

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



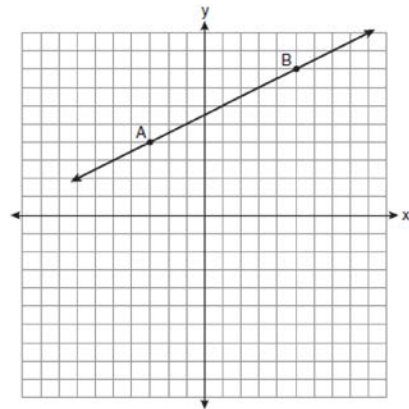
- 1) $\frac{4}{3}$
- 2) $\frac{3}{4}$
- 3) $-\frac{3}{4}$
- 4) $-\frac{4}{3}$

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



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

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



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

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Answer Section

1 ANS: 3

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

REF: fall0716ia

2 ANS: 3

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

REF: 060820ia

3 ANS: 2

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

REF: 010913ia

4 ANS: 3

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

REF: 061110ia

5 ANS: 2

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

REF: 061004ia

6 ANS: 4

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

REF: 011215ia

7 ANS: 1

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

REF: 080915ia

8 ANS: 2

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

REF: 081310ia

9 ANS: 2

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

REF: 061410ia

10 ANS: 2

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

REF: 081411ia

11 ANS: 2

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

REF: 081005ia

12 ANS: 1

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

REF: 069918a

13 ANS: 2

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

REF: 010115a

14 ANS: 4

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

REF: 011007ia