

Name: _____ Block: _____

Points: _____

& PC 10

Chapter 6 Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

ANSWER

_____ 1. Determine the slope of the line that passes through $G(3, -3)$ and $H(-5, 9)$.

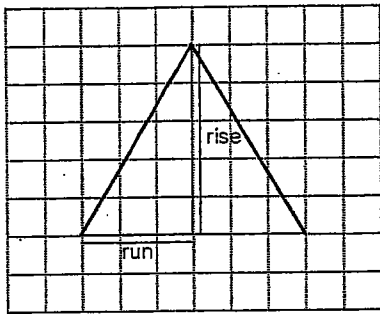
a. $\frac{3}{2}$

c. $\frac{2}{3}$

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

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

_____ 2. Determine the steepness of this roof by calculating its slope.



a. $-\frac{5}{3}$

c. $\frac{3}{5}$

b. $\frac{5}{3}$

d. $-\frac{3}{5}$

_____ 3. A road rises 9 m for every 60 m measured horizontally. Determine the slope of the road.

a. $-\frac{20}{3}$

c. $\frac{20}{3}$

b. $-\frac{3}{20}$

d. $\frac{3}{20}$

_____ 4. A line has x -intercept 2 and y -intercept 6? Determine the slope of the line.

a. $\frac{1}{3}$

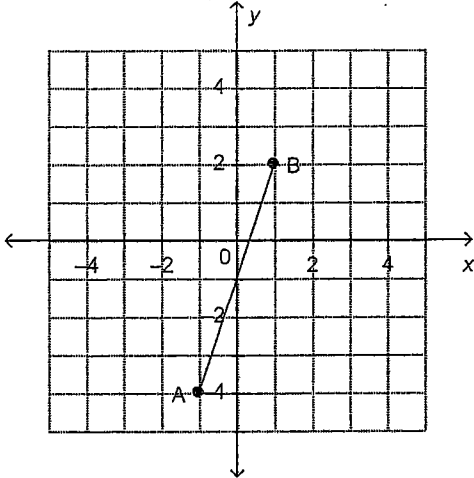
c. -3

b. 3

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

ANSWER

5. Determine the slope of the line that is perpendicular to this line segment.



- a. 3
- b. $\frac{1}{3}$
- c. $-\frac{1}{3}$
- d. $\frac{1}{3}$

6. Determine the slope of a line that is perpendicular to the line through W(-9, 7) and X(6, -10).

- a. $-\frac{15}{17}$
- b. $-\frac{17}{15}$
- c. -15
- d. $\frac{15}{17}$

7. A line has x-intercept -5 and y-intercept 1. Determine the slope of a line parallel to this line.

- a. -5
- b. $-\frac{1}{5}$
- c. 5
- d. $\frac{1}{5}$

8. A line passes through D(-5, 3) and N(12, -4). Determine the coordinates of two points on a line parallel to DN.

- a. (6, -10) and (24, -8)
- b. (-10, 24) and (6, -8)
- c. (-10, 6) and (24, -8)
- d. (-10, 6) and (-8, 24)

9. Predict what will be common about the graphs of these equations.

- i) $y = 3x + 6$
- ii) $y = 3x - 5$
- iii) $y = 3x - 6$
- iv) $y = 3x + 5$
- a. All the graphs will have the same slope.
- b. All the graphs will have the same x-intercept.
- c. All the graphs will have the same y-intercept.
- d. None of the above.

10. Write an equation for the graph of a linear function that has slope $-\frac{1}{3}$ and y-intercept -3.

- a. $y = -3x - \frac{1}{3}$
- b. $y = -\frac{1}{3}x - 3$
- c. $y = \frac{1}{3}x + 3$
- d. $y = 3x - \frac{1}{3}$

