

Core Algebra 2
Quiz 1.3

NAME _____

Write the letter for the best answer.

Find the slope. $\left(\frac{y_2 - y_1}{x_2 - x_1}\right)$

1. (4,2)(1, 11)

2. (5,-2)(7,8)

3. (6,-5)(3,2)

- A. -3 B. 3
C. $-\frac{1}{3}$ D. $\frac{1}{3}$

- A. 5 B. -5
C. $\frac{1}{5}$ D. $-\frac{1}{5}$

- A. $-\frac{3}{7}$ B. $\frac{3}{7}$
 C. $-\frac{7}{3}$ D. $\frac{7}{3}$

Find the slope (m) and the y -intercept (b). $y = mx + b$

4. $y = 5x - 1$

5. $4y = 12x + 20$

6. $3y - 4x = 5$

A. $m = 5, b = 1$

A. $m = 3, b = -5$

A. $m = \frac{4}{3}, b = \frac{5}{3}$

B. $m = -5, b = -1$

B. $m = -3, b = 5$

B. $m = -\frac{4}{3}, b = -\frac{5}{3}$

C. $m = -5, b = 1$

C. $m = 3, b = 5$

C. $m = \frac{3}{4}, b = -\frac{3}{5}$

D. $m = 5, b = -1$

D. $m = -3, b = -5$

D. $m = -\frac{3}{4}, b = \frac{3}{5}$

Write the linear equation in slope-intercept form for each given set of information. $y - y_1 = m(x - x_1)$

7. (1, 3) (4, 9)

8. (4, 1) (7, -8)

A. $y = 2x - 1$

B. $y = \frac{1}{2}x + 6$

A. $y = -3x - 13$

B. $y = -\frac{1}{3}x - 7$

C. $y = \frac{1}{2}x - 6$

D. $y = 2x + 1$

C. $y = -3x + 13$

D. $y = -\frac{1}{3}x + 7$

9. (2, -3) $m = 5$

10. (2, -1) y -intercept = 3

A. $y = 5x - 10$

B. $y = 5x - 13$

A. $y = 4x + 6$

B. $y = -2x + 3$

C. $y = 5x - 7$

D. $y = 5x + 13$

C. $y = -2x - 3$

D. $y = 4x - 6$

11. (5, -6) $m = 0$

A. $y = -6$

B. $y = 5$

C. $x = -6$

D. $x = 5$

Solve for x to each system of equations by using the SUBSTITUTION method.

12. $3x - 2y = 2$
 $2x + y = 13$

- A. -4 B. -5
C. 4 D. 5

13. $4x + 3y = 5$
 $x + 2y = 5$

- A. -3 B. 1
C. -1 D. 3

Solve for y to each system of equations by using the ELIMINATION method.

14. $3x + 2y = 6$
 $2x - y = -10$

- A. 6 B. -6
C. 2 D. -2

15. $3x + 4y = -7$
 $-4x - 2y = -4$

- A. 3 B. 4
C. -3 D. -4