

5.1-5.4 REVIEW WORKSHEET

Name: _____

Find the rate of change and explain what it means.

1. Distance a car travels

Time (s)	Distance (m)
3	75
6	150
9	225
12	300

Find the slope of the line that passes through each pair of points.

2. $(-2, 1)$ & $(3, 6)$

3. $(2, 5)$ & $(-8, 5)$

4. $(6, 4)$ & $(2, 7)$

Tell whether each equation is a direct variation. If it is, find the constant of variation.

5. $y = \frac{1}{2}x$

6. $5x + 3 = 8y + 3$

7. $2y + 4 = 4x + 1$

Find the slope and y-intercept of the graph of each equation.

8. $y = \frac{1}{5}x + 3$

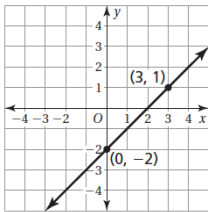
9. $4x + 5y = 20$

10. $2y = -8x - 10$

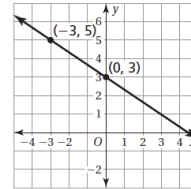
11. The distance a wheel moves forward varies directly with the number of rotations. Suppose the wheel moves 56 feet in 8 rotations. Write a direct variation equation to represent this situation. What distance does the wheel move in 20 rotations?

Write an equation in slope-intercept form for the line.

12.



13.



Write an equation in point-slope form for the line through the given point with the given slope.

14. $(4, 0)$ $m = 4$

15. $(3, -2)$ $m = -\frac{1}{2}$

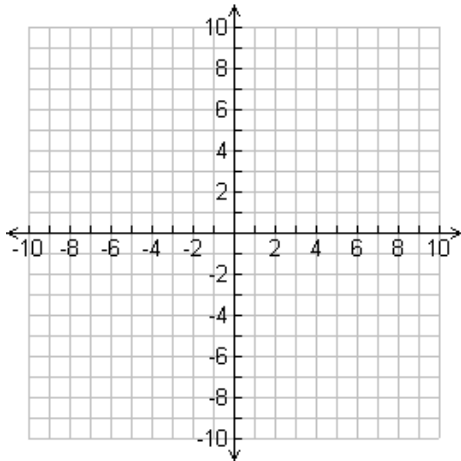
Write an equation, in slope-intercept form, of the line that passes through the pair of points.

16. $(-1, -5)$ & $(2, 10)$

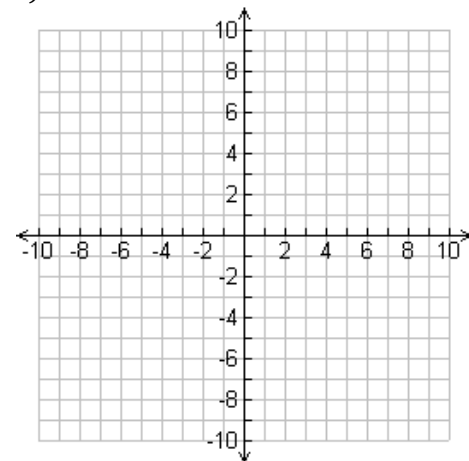
17. $(-2, 4)$ & $(3, -1)$

Graph each equation.

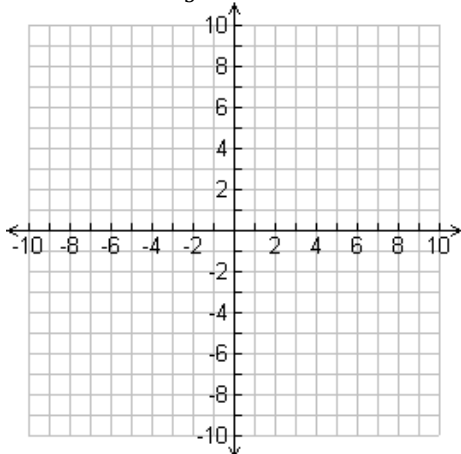
18. $y = 2x - 5$



19. $y + 3 = \frac{1}{2}(x + 2)$



20. $y = -\frac{2}{3}x + 1$



21. $y - 4 = -2(x - 2)$

