

Algebra I
HW Chp 4 Review #2

Name: _____

Date: _____ **Per:** _____

For #1-4, state the slopes of the lines parallel to and perpendicular to the graph of each equation.

1. $y = -5x - 10$

2. $x = 8$

3. $2x - 4y = 9$

4. $y = 4$

// slope: _____

// slope: _____

// slope: _____

// slope: _____

\perp slope: _____

\perp slope: _____

\perp slope: _____

\perp slope: _____

For #5-6, find the x -intercept and y -intercept of the graph of each equation. Remember to write your answer as an ordered pair!

5. $3x - 8y = 21$

6. $y = \frac{2}{3}x - 8$

For #7-10, write the equation of the line in standard form satisfying the given conditions:

7. has y -intercept $(0, 3)$ and slope $\frac{1}{8}$

8. has y -intercept $(0, -10)$ and slope -3

9. passes through $(-4, 8)$ and $(7, -2)$

10. passes through $(0, 1)$ and $(5, 0)$

For #11-14, write the equation of the line in slope-intercept form satisfying the given conditions:

11. parallel to the graph of $y = -\frac{1}{5}x - 2$
and passes through $(0, -7)$

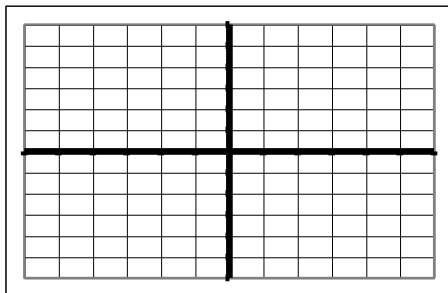
12. parallel to the graph of $2x - 4y = 16$
and passes through $(1, -4)$

13. perpendicular to $y = -5x - 2$
and passes through $(-3, 2)$

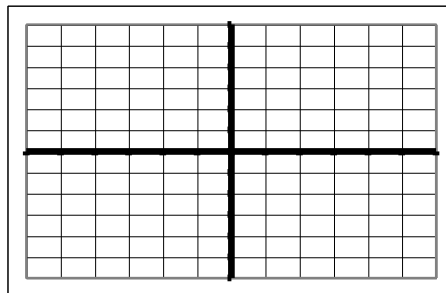
14. perpendicular to $2x - 4y = 16$
and passes through $(0, 3)$

For #15-18, graph each equation:

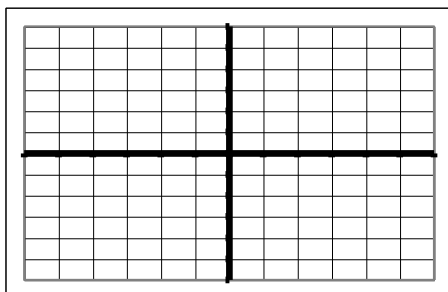
15. $y = -5x + 3$



16. $y = \frac{2}{3}x - 4$



17. $5x - 2y = 6$



18. $2x + 8y = -10$

