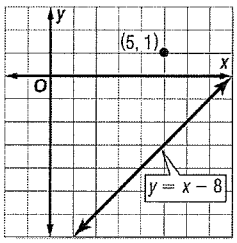
Name: _____

Date: _____ Hour: ____

2.5 Parallel Lines Worksheet

Explain questions with stars next to question numbers.

Write the slope-intercept form for an equation of the line that passes through the given point and is parallel to the graph of each equation.

1) 

$y = x - 4$

★2) $(-3, 2),\ y = 4x - 2$

$y = 4x + 14$

3) $(4, -2),\ y = -2x + 3$

$y = -2x + 6$

4) $(-2, 4),\ y = -3x + 10$

$y = -3x - 2$

5) $(-1, 6),\ 3x + y = 12$

$y = -3x + 3$

6) $(4, -6),\ x + 2y = 5$

$y = -\frac{1}{2}x - 4$

7) Find an equation that has a y-intercept of 2 that is parallel to the graph of the line $4x + 2y = 8$.

$y = -2x + 2$

8) Find an equation that has a y-intercept of -4 that is parallel to the graph of the line $y = 6$.

$y = -4$

9) $(3,2),\ y = x + 5$

$y = x - 1$

10) $(4,-6),\ y = -\frac{3}{4}x + 1$

$y = \frac{-3}{4}x - 3$

11) $(12,\ 3),\ y = \frac{4}{3}x + 5$

$y = \frac{4}{3}x - 13$

12) $(-2,\ 5),\ y = -4x + 2$

$y = -4x - 3$

13) $(-8,\ 2),\ 5x - 4y = 1$

$y = \frac{5}{4}x + 12$

14) $(-5,6),\ 4x + 3y = 1$

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

15) $(-3,4),\ 3y = 2x - 3$

$y = \frac{2}{3}x + 6$

16) $(3,1),\ 2x + 5y = 7$

$y = \frac{-2}{5}x + \frac{11}{5}$

D 17.) Romeo Plank Road is modeled by the equation x = 4. What would be the equation for Garfield Road?

A.) $y = x + 4$

B.) $y = 4$

C.) $y = 4x$

D.) $x = -4$