## Name: \_\_\_\_

Determine whether the graphs of the given equations are parallel, perpendicular or neither.

1. 
$$y = x + 11$$
  
 $y = -x + 2$   
2.  $y = \frac{3}{4}x - 1$   
 $y = \frac{3}{4}x + 29$   
3.  $y = -2x + 3$   
 $2x + y = 7$   
4.  $y - 4 = 3(x + 2)$   
 $2x + 6y = 10$   
5.  $y = -7$   
 $x = 2$   
6.  $y = 4x - 2$   
 $-x + 4y = 0$ 

Write an equation in slope-intercept form of the line that passes through given point and is PERPENDICULAR to the graph of the given equation. SHOW YOUR WORK!!!

7. (0,0) & y = -3x + 28. (-2,3) &  $y = \frac{1}{2}x - 1$ 9. (1,-2) & y = 5x + 4

10. (-3, 2) & x - 2y = 711. (5, 0) & y + 1 = 2(x - 3)12. (1, -6) & x = 4