

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Determine if the following equations are parallel, perpendicular, or neither**

\_\_\_\_\_ 1.  $y = \frac{1}{2}x + 4$   
 $y = \frac{1}{2}x - 5$

\_\_\_\_\_ 2.  $y = 2x + 7$   
 $y = -2x + 3$

\_\_\_\_\_ 3.  $y = \frac{-1}{4}x$   
 $y = 4x - 3$

\_\_\_\_\_ 4.  $2x + 4y = 8$   
 $3x + 6y = -6$

\_\_\_\_\_ 5.  $3x + y = 5$   
 $x - 3y = -3$

\_\_\_\_\_ 6.  $8x + y = 7$   
 $8x - y = 4$

\_\_\_\_\_ 7.  $y = \frac{1}{4}x + 3$   
 $2x + 8y = -8$

\_\_\_\_\_ 8.  $x - 2y = -4$   
 $y = \frac{1}{2}x + 6$

**Write the equation of a line parallel and a line perpendicular to the given equation**

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

10.  $y = 4x + 2$   $(-8, -3)$

11.  $y = \frac{-2}{3}x + 1$   $(-6, 1)$

12.  $y = \frac{-5}{2}x - 3$   $(10, -3)$

Parallel Line	Perpendicular Line