Name: _____ Date: _____

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

1. $y = \dfrac{1}{2}x + 4$

$y = \dfrac{1}{2}x - 5$

2. $y = 2x + 7$

$y = -2x + 3$

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

$y = 4x - 3$

4. $2x + 4y = 8$

$3x + 6y = -6$

5. $3x + y = 5$

$x - 3y = -3$

6. $8x + y = 7$

$8x - y = 4$

7. $y = \dfrac{1}{4}x + 3$

$2x + 8y = -8$

8. $x - 2y = -4$

$y = \dfrac{1}{2}x + 6$

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

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

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

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

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