NAME: _____ HW 3.3 – PARALLEL & PERPENDICULAR
DAY 2

DATE: _____ ALGEBRA 1A

State whether the given lines are parallel, perpendicular, or neither. Solve for y if necessary.

1. $y = x - 3$
   $y = -x + 4$

2. $y = 2x - 8$
   $-2x + y = 7$

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

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

5. $y = \frac{5}{2}x - 6$
   $y = -\frac{2}{5}x + 6$

6. $6y = -2x + 6$
   $3y = -x + 9$

7. $y = x$
   $y = 5$

8. $y = -5$
   $x - 4 = 6$

9. $4x - y = 8$
$x + 4y = 3$

10. $4x + 4y = 28$
$3x + 3y = 21$

In each of the following sets, select the one equation whose graph would not be parallel to the other two:

11. $\{y - 6x = 3,\ \ 2y = 12x,\ \ x = 6y\}$

12. $\{4x - y = 2,\ \ y + 4x = 2,\ \ 4x - y = 2\}$

13. $\{3x + y = 8,\ \ 2y = 8 - 6x,\ \ x - 3y = 8\}$

In each of the following sets, select the one equation whose graph would not be perpendicular to the given equation:

14. $y = -\frac{3}{5}x + 1$ $\{3y = 5x + 6,\ \ y = -\frac{5}{3}x + 1\}$

15. $2y - x = 0$ $\{y = -2x,\ \ y = -\frac{1}{2}x\}$

16. $y + 5x = 4$ $\{y = -5x,\ \ y = \frac{1}{5}x + 4\}$