Monday, November 17, 2014 Algebra 1 Bellwork

Tell if each pair of lines is parallel, perpendicular, or neither

$$1. \ y = 2x - 9$$
$$y = 2$$

2.
$$y = -5x + 3$$

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

$$3. \ y = -3x - 9$$
$$12x + 4y = 10$$

4.
$$y = 0.125x + 3$$

$$16x + 2y = 6$$

5.
$$y = -4x + 5$$

$$16x + 4y = 20$$

6.
$$y = \frac{2}{3}x - 8$$

4.
$$y = 0.125x + 3$$
 5. $y = -4x + 5$ 6. $y = \frac{2}{3}x - 8$ $16x + 2y = 6$ $16x + 4y = 20$ $y - 1 = \frac{2}{3}(x - 12)$

- 7. Write an equation for the line that is parallel to the line y = 7x 9 and passes through the point (-1,6).
- 8. Write an equation for the line that is perpendicular to the line y = -2x + 1 and passes through the point (4, -8).

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Tell if each pair of lines is parallel, perpendicular, or neither

1.
$$y = 2x - 9$$
 $M = 2$
 $y = 2$ $M = 0$

2.
$$y = -5x + 3$$
 M = -5
 $y = -\frac{1}{5}x + 1$ M = -1/5

3.
$$y = -3x - 9$$
 $M = -3$ $b = -1$

1.
$$y = 2x - 9 \stackrel{M=2}{\longrightarrow} 2$$
. $y = -5x + 3 \stackrel{M=-5}{\longrightarrow} 3$. $y = -3x - 9 \stackrel{M=-3}{\longrightarrow} 9 = -9$
 $y = 2 \stackrel{M=0}{\longrightarrow} y = -\frac{1}{5}x + 1 \stackrel{M=-1}{\longrightarrow} 12x + 4y = 10 \stackrel{M=-3}{\longrightarrow} y = \frac{10 - 12x}{9} = \frac{10}{9}4 - 3x$

NEITHER PAPALLEL $\frac{M=-3}{9} = \frac{10}{9}4$

$$m = -3$$

$$b = 10/4$$

4.
$$y = 0.125x + 3$$

$$16x + 2y = 6$$

$$y = 6 - 10x = 3 - 8$$

$$Y = \frac{6 - 10^{x}}{2} = 3 - 8x$$

5.
$$y = -4x + 5$$

$$16x + 4y = 20$$

$$Y = 5 - 4x$$

4.
$$y = 0.125x + 3$$

$$16x + 2y = 6$$

$$16x + 4y = 20$$

$$y = 1 = \frac{2}{3}(x - 12)$$

$$y = -1 = \frac{2}{3}(x - 12$$

7. Write an equation for the line that is parallel to the line y = 7x - 9 and passes through the point

$$(-1,6)$$
. $y-6=7(x+1)$ or $y=7x+13$

8. Write an equation for the line that is perpendicular to the line y = -2x + 1 and passes through the point (4, -8).