Algebra 1 Bellwork Monday, January 25, 2016

1. Is each pair of lines 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.
$$y = 0.25x + 3$$

$$8x + 2y = 6$$

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

 $16x + 4y = 20$

- 6. Write an equation for the line that is parallel to the line y = 7x 9 and passes through the point (-1,6).
- 7. Write an equation for the line that is perpendicular to the line 6x + 2y = 10 and passes through the point (4, -8).

Monday, January 25, 2016 Algebra 1 Bellwork



1. Is each pair of lines Parallel, Perpendicular, or Neither?

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

$$y = 2$$

$$Neither$$

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

ines Parallel, Perpendicular, or Neither?

2.
$$y = -5x + 3$$
 $y = -\frac{1}{5}x + 1$
 $y = -\frac{10}{5}x + 1$

4.
$$y = 0.25x + 3$$
 $M = .25 = \frac{1}{4}$
 $8x + 2y = 6$
 $y = \frac{6 - 8}{2}$

$$y = \frac{6 - 8 \times}{2}$$

$$y = \frac{6 - 8 \times}{2}$$

$$y = \frac{1}{2}$$

 $y = 3 - 4x$ $m = -4$

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

 $16x + 4y = 20$

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

$$16x + 4y = 20$$

$$y = \frac{20 - 16x}{4} = 5 - 4x$$
Neither they are the same Line
at is parallel to the line $y = 7x - 9$ and passes through

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

(-1,6).
$$y-6 = 7(x+1)$$
 Slope = 7
 $y = 7x + 13$ parallel line slope = 7

7. Write an equation for the line that is perpendicular to the line 6x + 2y = 10 and passes through the

$$y = \frac{10 - 6x}{2}$$
 Slope = -3
 $y = 5 - 3x$ = $\frac{1}{3}$