

## Parallel, Perpendicular, or Neither?

Decide if each pair of lines is parallel, perpendicular or neither. You MUST SHOW WORK (i.e., WRITE EACH SLOPE somewhere!!)

1.  $y = \frac{1}{6}x$  and  $y = -\frac{1}{6}x$

2.  $y - 9 = 3(x + 1)$  and  $y = -\frac{1}{3}x + 5$

3.  $y = \frac{1}{4}x - 2$  and  $4y - x = 4$

4.  $3x + 2y = 6$  and  $3y + 2x = -4$

5.  $2x = 4$  and  $4x = -4$

6.  $y = x$  and  $y - x = 4$

7.  $x = 3$  and  $y = -2$

8.  $7x + 2y = 4$  and  $2x + 7y = -3$

9.  $y - x = 0$  and  $y + x = 3$

$y = 7x$  and  $y - 28 = 7(x - 4)$