

Name Key

### Parallel and Perpendicular Lines HOMEWORK

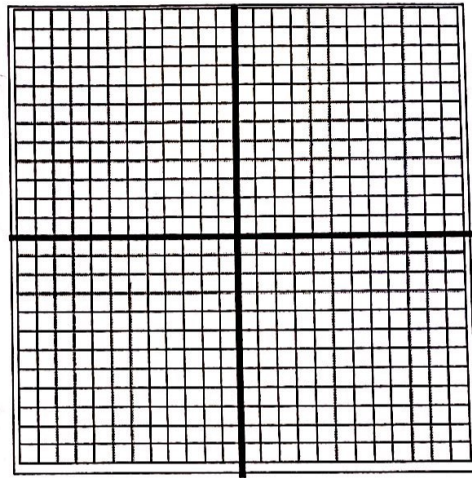
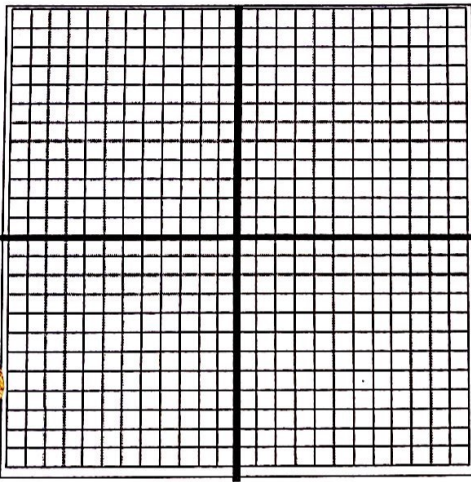
A. Write an equation that is **parallel** to the given line through the given point.

B. Verify by graphing **both** lines.

1.  $(-3, 4)$   $y = 2x - 7$   $y = 2x + 10$

2.  $(3, 1)$   $-7x - 3y = 3$   $y = -\frac{7}{3}x + 8$

Show work!



A. Write an equation that is **perpendicular** to the given line through the given point.

B. Verify by graphing **both** lines.

3.  $(-5, 5)$   $y = -5x + 9$   $y = \frac{1}{5}x + 6$

4.  $(6, -8)$   $3x - 5y = 10$   $y = -\frac{5}{3}x + 2$

Show work!

