Algebra 1 Name_____

Parallel and Perp. Lines

Date_____

Write the slope-intercept form of the equation of the line described. Graph the line and it given line parallel or perpendicular on the same graph.

1) through: $(3, 1)$, parallel to $y = \frac{4}{3}x + 2$

2) through: $(4, -4)$, parallel to $y = -\frac{3}{7}x$

3) through: $(-3, -3)$, parallel to $y = -4x + 2$

4) through: $(-3, 2)$, parallel to $y = -\frac{5}{3}x + 1$

5) through: $(1, 3)$, perp. to $y = -\frac{1}{5}x + 3$

6) through: $(-1, 4)$, perp. to $y = \frac{1}{5}x - 4$

7) through: $(1, -1)$, perp. to $y = -\frac{1}{4}x - 3$

8) through: $(1, -3)$, perp. to $y = \frac{1}{7}x + 3$

Write the slope-intercept form of the equation of the line through the given points. Graph the line.

9) through: $(3, 0)$ and $(5, 5)$

10) through: $(-4, 5)$ and $(0, 5)$