Name: _____
Period: _____

Writing Equations of Lines

Review problems:

1. Write the equation of a line with slope $-\frac{2}{3}$ and y-intercept -4.

2. Write the equation of a line through (-6, 1) with slope 7 in point-slope form.

3. Write the equation of a line through (2, -1) and (4, 5) in point-slope form.
   Convert your equation to slope-intercept form.

Connecting Lines to Geometry:

4. Three vertices of parallelogram KLMP are given: K (-3, 4), L (5, 2), and M (-1, -1). Find the missing vertice and then Find the equations of each of the four lines that form the parallelogram.

5. The vertices of triangle ABC are A (2, 1), B (4, -3), C (6, 3). .
   a. Find the equations of each of the three lines that form the triangle.
   b. Determine whether the triangle is a right triangle or not.
   c. Determine whether the triangle is isosceles or not.