



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 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.