**You must SHOW ALL WORK to receive full credit.**

**Write the equation of the line that:**

1. $passes through the point \left(-9, 2\right)and is perpendicular to the equation y=-3x+6.$

**Write the following equations in slope-intercept form, identify the slope and y-intercept, and graph. Label your lines.**

1. Line A: $-2y=3x-4$

m = \_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_

1. Line B: $2x-y=5$

m = \_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_

**Solve.**

4. $\frac{3}{2x}=\frac{-4}{5}$ 5. $\frac{x-3}{8}=\frac{2x+3}{-2}$