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

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

1. $passes through the point \left(6, -4\right)and is perpendicular to the equation y=-3x+6.$

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

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

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

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

1. Line B: $4x-3y=-12$

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

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

**Solve.**

4. $\frac{4}{x+6}=\frac{-2}{3}$ 5. $\frac{x-8}{4}=\frac{x+3}{2}$