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

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

1. $passes through the point \left(-2, -5\right)and is perpendicular to the equation y=\frac{2}{3}x+6.$

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

1. Line A: $x+3y=-6$

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

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

1. Line B: $4x-y=2$

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

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

**Solve.**

4. $\frac{4}{x}=\frac{-2}{3}$ 5. $\frac{8}{14}=\frac{x}{11}$