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

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

1. $passes through the points \left(3, -4\right)and (6, 8).$

**Write the following equation in slope-intercept form, identify the slope and y-intercept, and graph.**

1. $5x-4y=16$

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

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

**Solve.**

3. $\frac{2}{x-1}=\frac{-2}{3}$

**Use Pythagorean Theorem to solve for the missing side. Round your answers to the nearest tenth if necessary.**

4. 5.

8 in

x

10 cm

10 cm

14 in.

x