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

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

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

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

1. $3x-y=-2$

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

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

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

3.

12 cm

15 cm

x

4. **Simplify:**

a) $348^{0}=$ b) $6^{-4}=$ c) $x^{-2}∙x^{7}=$

d) $x^{5}∙x^{-7}=$ e) $(5^{2})^{-4}=$ f) $\frac{x^{-2}}{x^{5}}=$