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

**What slope would a line parallel to the given line have? What slope would a perpendicular line have?**

1.

Parallel slope\_\_\_\_\_\_\_\_\_ Perpendicular slope \_\_\_\_\_\_\_\_\_

**Write the equation of the line *parallel or perpendicular* to the given line through the given point.**

2. **parallel** to through (-8,5)

**Solve the equation.**

3.

**4. Simplify the following exponent problems.**

a. b. c.

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

5.

6 cm

5 cm

x