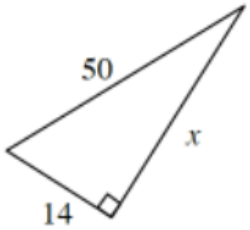
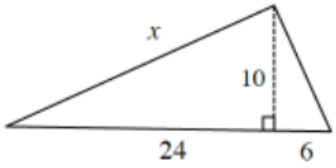
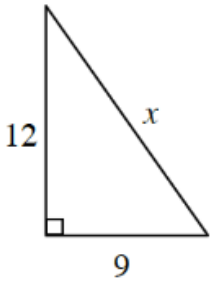
Name _____

Period _____ Date _____

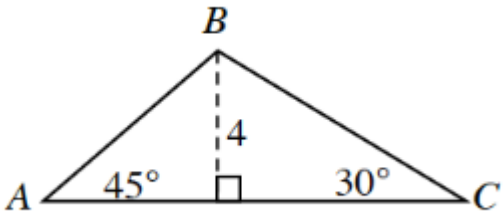
Homework 6.1.4

1. Rewrite $27^{\frac{2}{3}}$ in as many different ways as you can.

2. Use what you know about Pythagorean Triples to determine the measure of the third side. (if you don't recognize a Pythagorean Triple you can always simply use the Pythagorean Theorem)

a. 	b. 	c. 

3. Calculate the area and perimeter of ΔABC at right. Give both exact and approximate (decimal) answers.

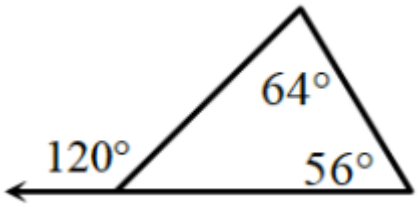


4. Solve each quadratic equation below. You may need to use a calculator.

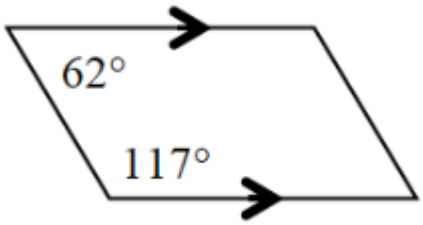
a) $3x^2 - 4x = 5$ (Hint: First need to move the 5!)	b) $(3x - 2)^2 = 16$

5. Examine the information provided in each diagram below. Decide if each figure is possible or not. If the figure is not possible, explain why not.

a)



b)



c)