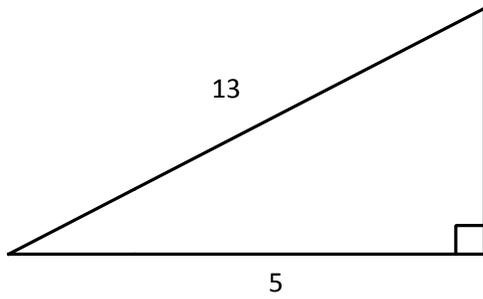


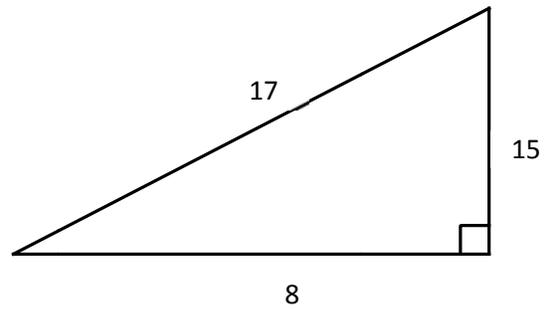
Homework #2

Problem 1. (Rule of Pythagoras) Find the missing side of the triangle:

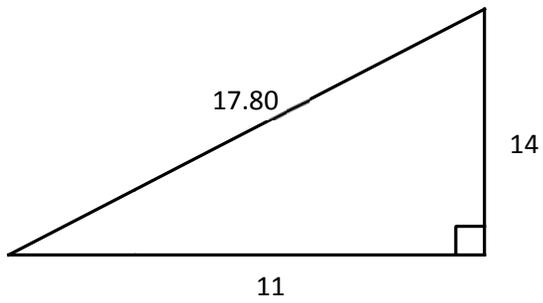
a)



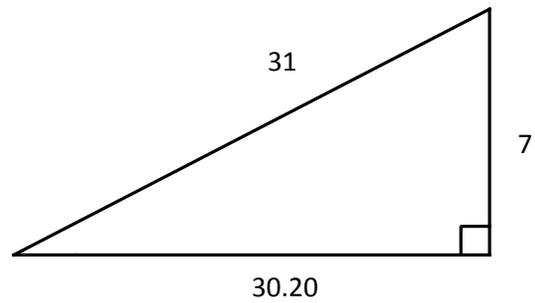
b)



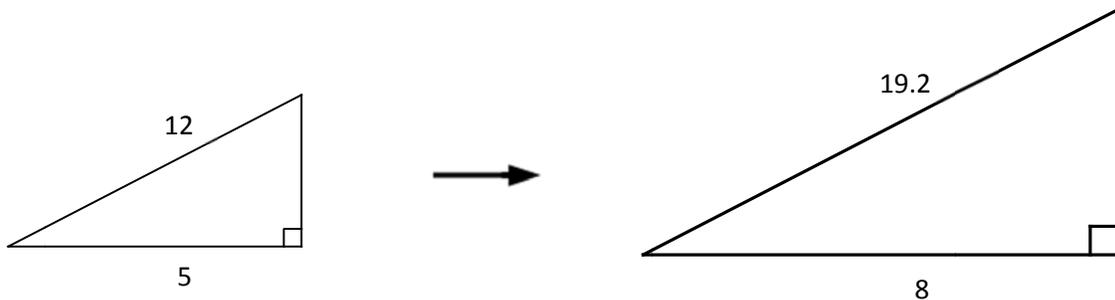
c)



d)

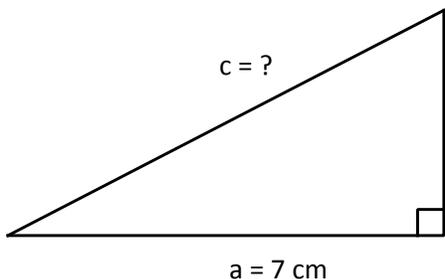


Problem 2. (Ratios) If the two triangles are **similar** (meaning proportional), find the unknown side.



Problem 3. (Ratios) Find the unknown side given the appropriate ratio:

a)

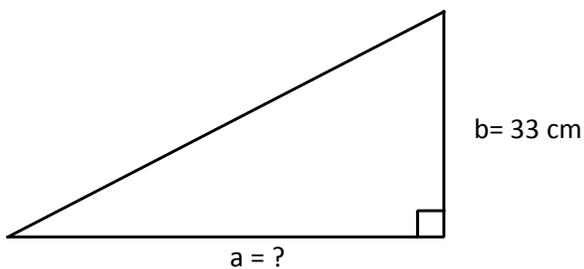


Ratio of a to c is 1 : 2.5

Working:

$$c = 17.5 \text{ cm}$$

b)

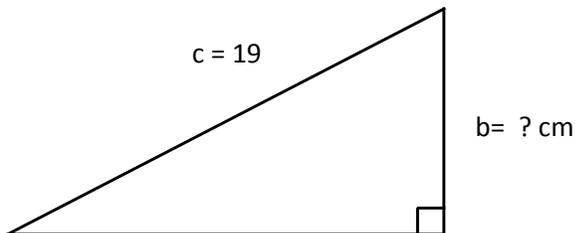


Ratio of b to a is 3 : 1

Working:

$$a = 11 \text{ cm}$$

c)

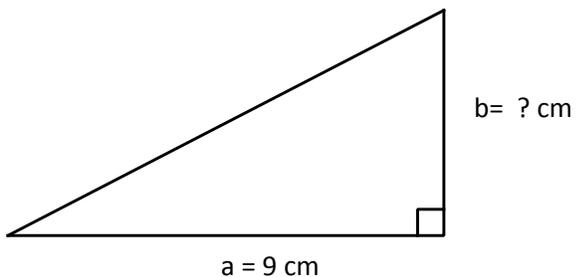


Ratio of b to c is 1 : 3.7

Working:

$$b = 5.14 \text{ cm}$$

d)



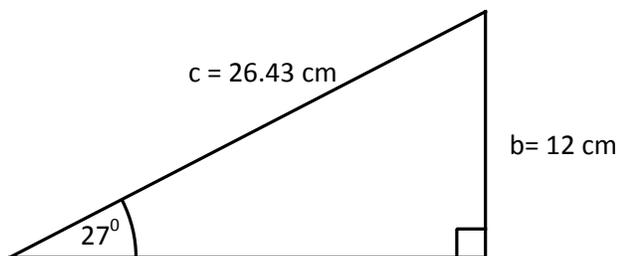
Ratio of a to b is 1.3 : 2.1

Working:

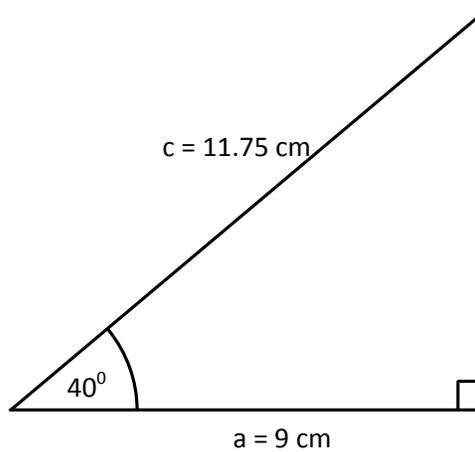
$$b = 14.54 \text{ cm}$$

Problem 4. (Sin, Cos, Tan functions) Find the unknown side.

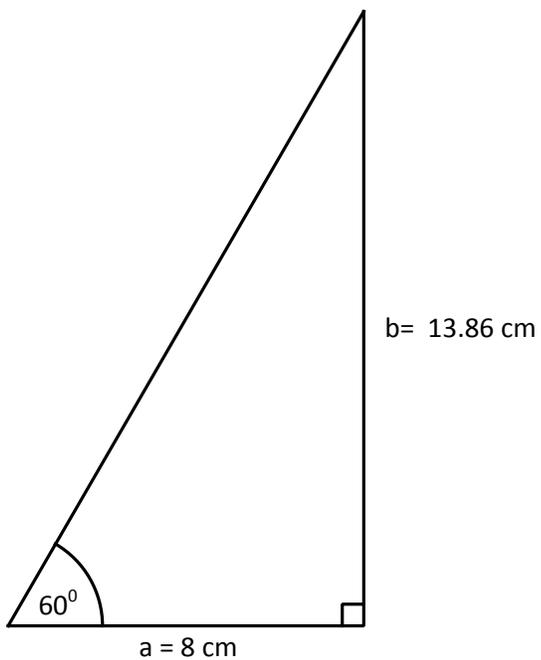
a)



b)



c)



d)

