Math 2

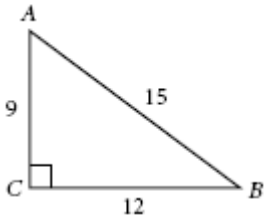
Name _____

Score: _____ /60

Date _____

Unit 3 Test: The Pythagorean Theorem and Basic Trigonometry

1. Given $\triangle ABC$ at right, find each of the following. [8 marks]



a. sinA

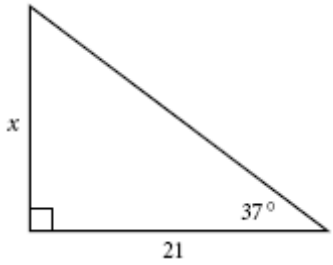
b. tanA

c. cosB

d. tanB

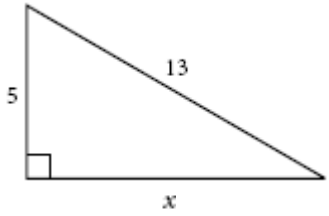
2. Find x in each triangle – round each answer to the nearest tenth. [16 marks]

a.



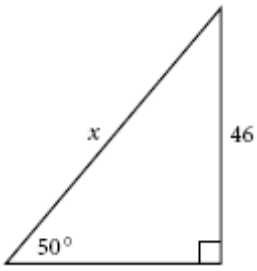
x = _____

b.



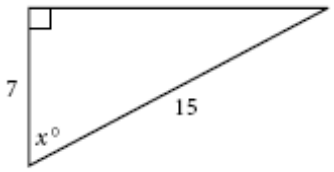
x = _____

c.



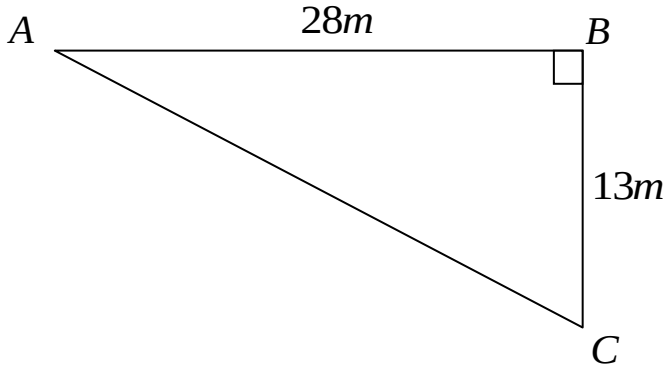
x = _____

d.



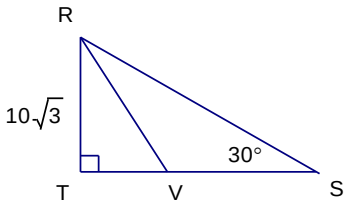
x = _____

3. Solve for **ALL angles** and **sides** in the following triangle. [9 marks]



4 $\triangle RST$ is shown at the right. It is a right triangle and $RT = 10cm$.

a. Find the length RS. [4 marks]



b. Suppose $m\angle RVT = 60°$. Find the length VT. [4 marks]

4. A square has side length 5 cm. Find the length of the diagonal. [4 marks]