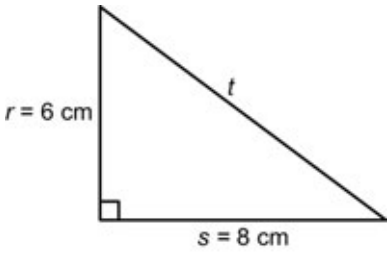
Name: _____ Date: _____

BLM 3–14

Section 3.4 Extra Practice

1. Fill in the blanks to find the length of the hypotenuse of the right triangle.

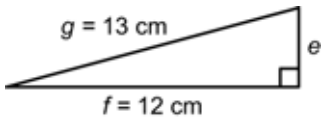
$t^2 = r^2 + s^2$
$t^2 = \_\_\_\_^2 + \_\_\_\_^2$
$t^2 = \_\_\_\_ + \_\_\_\_$
$t^2 = \_\_\_\_$
$t = \sqrt{}$
$\_\_\_\_$
$t = \_\_\_\_$



The length of the hypotenuse is _____ cm.

2. Fill in the blanks to find the unknown leg length of the right triangle.

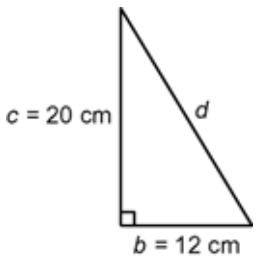
$e^2 + f^2 = g^2$
$e^2 + \_\_\_\_^2 = \_\_\_\_^2$
$e^2 + \_\_\_\_ = \_\_\_\_$
$e^2 + \_\_\_\_ - \_\_\_\_ = \_\_\_\_ - \_\_\_\_$
$e^2 = \_\_\_\_$
$e = \sqrt{}$
$\_\_\_\_$
$e = \_\_\_\_$



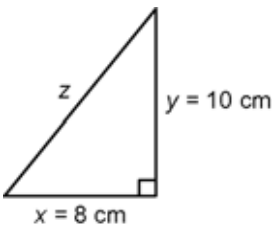
The length of leg *e* is _____ cm.

3. What is the length of the hypotenuse of each right triangle? Show your work. Give your answer to the nearest tenth of a centimetre.

a)

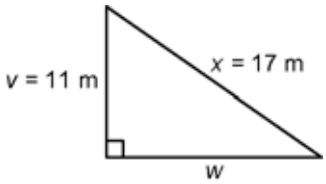


b)



4. Use the Pythagorean relationship to determine the unknown leg length of each right triangle. Give your answer to the nearest metre. Show your work.

a)



b)