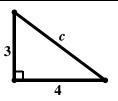
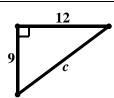
10.2c Class Activity: The Pythagorean Theorem and Unknown Side Lengths

Directions: Find the length of the hypotenuse of each right triangle shown below using the Pythagorean Theorem. Leave your answer in simplest radical form.

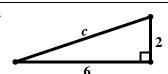
1.



2.



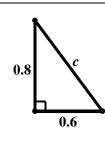








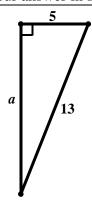
5.





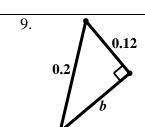
Directions: Find the length of the leg of each right triangle shown below using the Pythagorean Theorem. Leave your answer in simplest radical form.

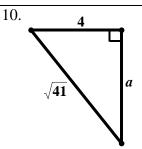
7.



8.



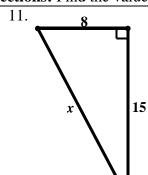


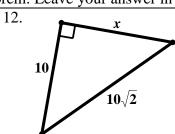


b =

 $a = _{---}$

Directions: Find the value of *x* using the Pythagorean Theorem. Leave your answer in simplest radical form.

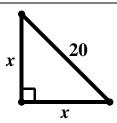




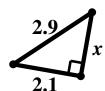
 $x = \underline{\hspace{1cm}}$

$$x = \underline{\hspace{1cm}}$$

13.



14.



x =

$$x =$$