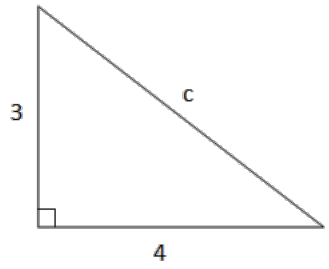
P.S. #11.2a - Pythagorean Theorem

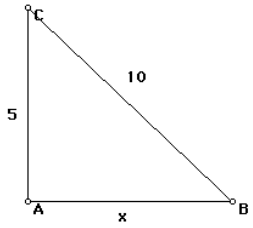
Name: _____ Class: _____

Solve for the missing side in each triangle. If necessary, simplify the radical.

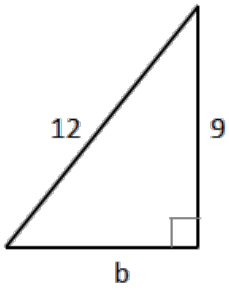
1.)



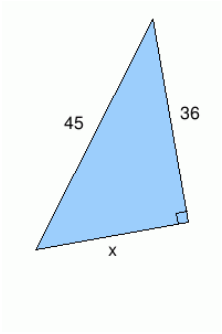
2.)



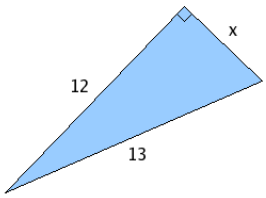
3.)



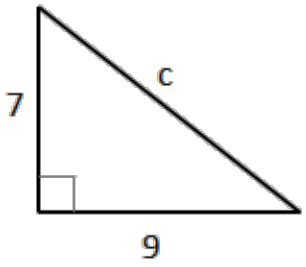
4.)



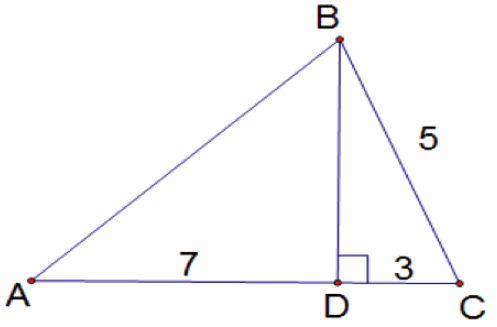
5.)



6.)



7.) Solve for BD and AB.



8.) To get from point A to point B, you must avoid walking through a pond. To avoid the pond, you must walk 34 meters south and 41 meters east. To the *nearest meter*, how many meters would be saved if it were possible to walk through the pond?

Answer Key:

1.) 5

2.) $5\sqrt{3}$

3.) $3\sqrt{7}$

4.) 27

5.) 5

6.) $\sqrt{130}$

7.) BD = 4

AB = $\sqrt{65}$

8.) 53 m