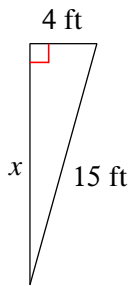


## Pythagorean Theorem

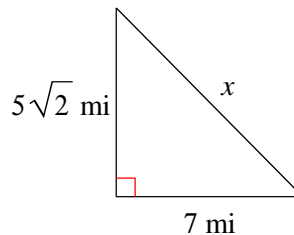
© 2013 Kuta Software LLC. All rights reserved.

**Find the missing side of each triangle. Leave your answers in simplest radical form.**

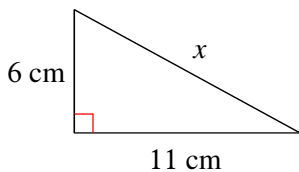
1)



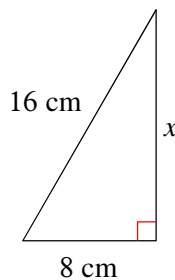
2)



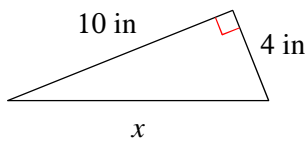
3)



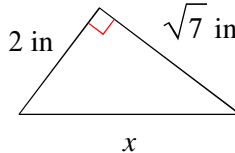
4)



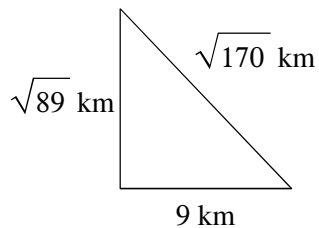
5)



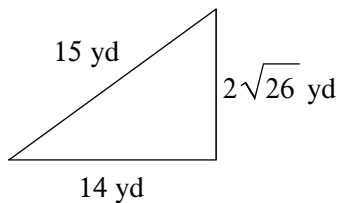
6)

**State if each triangle is a right triangle.**

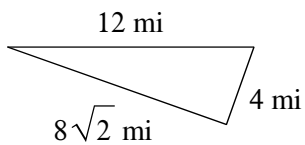
7)



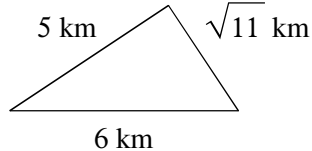
8)



9)

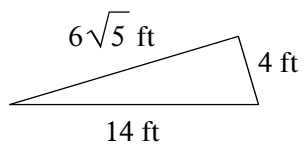


10)

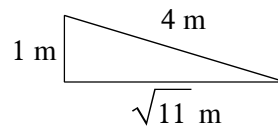


State if each triangle is acute, obtuse, or right.

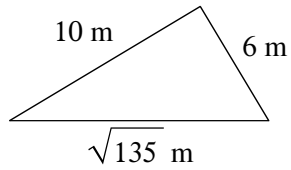
11)



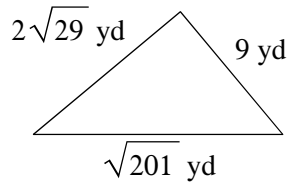
12)



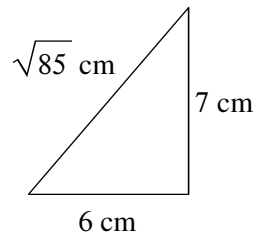
13)



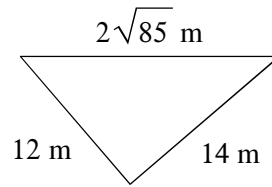
14)



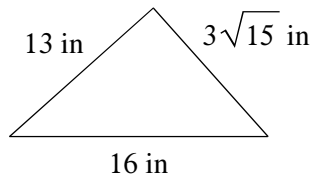
15)



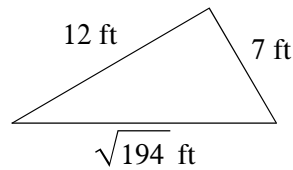
16)



17)

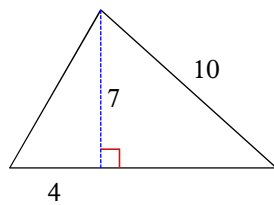


18)

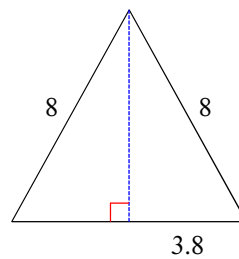


Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

19)



20)



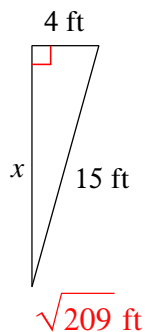
## Pythagorean Theorem

© 2013 Kuta Software LLC. All rights reserved.

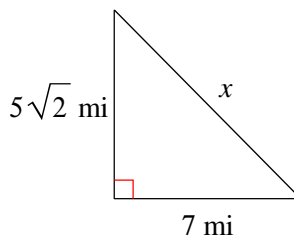
Date \_\_\_\_\_ Block \_\_\_\_\_

**Find the missing side of each triangle. Leave your answers in simplest radical form.**

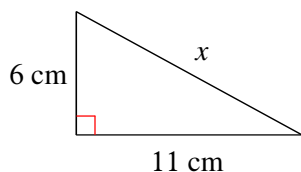
1)

 $\sqrt{209}\text{ ft}$ 

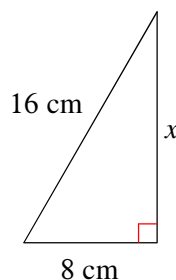
2)

 $3\sqrt{11}\text{ mi}$ 

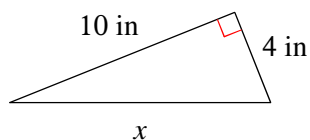
3)

 $\sqrt{157}\text{ cm}$ 

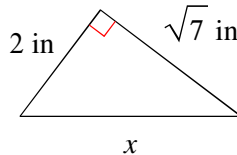
4)

 $8\sqrt{3}\text{ cm}$ 

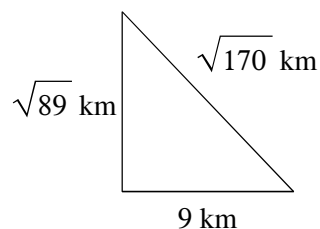
5)

 $2\sqrt{29}\text{ in}$ 

6)

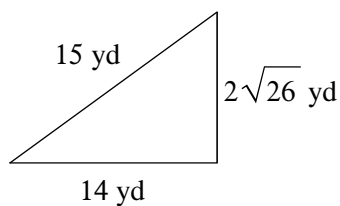
 $\sqrt{11}\text{ in}$ **State if each triangle is a right triangle.**

7)



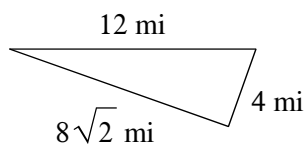
Yes

8)



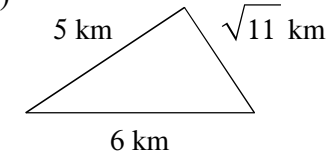
No

9)



Yes

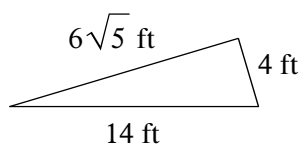
10)



Yes

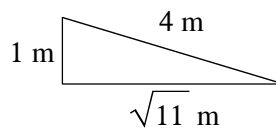
State if each triangle is acute, obtuse, or right.

11)



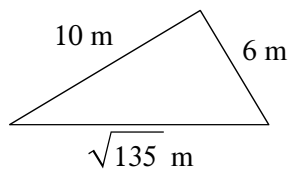
Right

12)



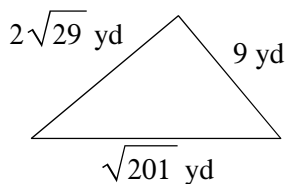
Obtuse

13)



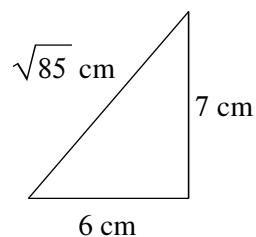
Acute

14)



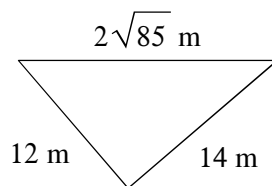
Obtuse

15)



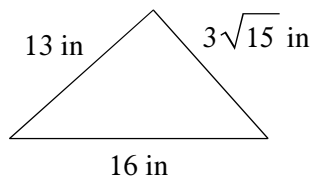
Right

16)



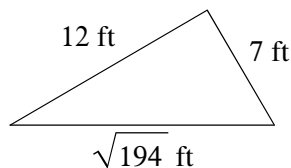
Right

17)



Acute

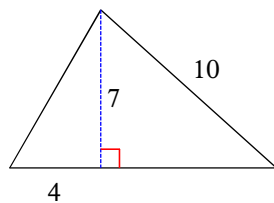
18)



Obtuse

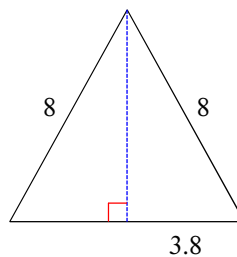
Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

19)



38.9

20)



26.6