

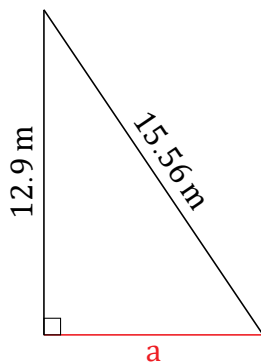
Pythagorean Theorem (C)

Name: _____

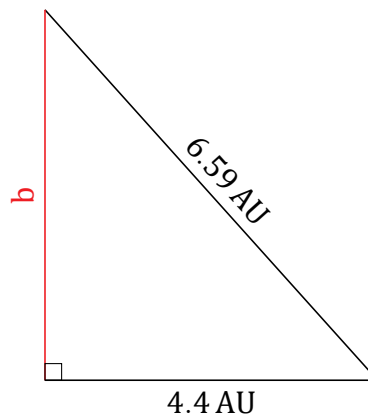
Date: _____

Calculate the missing side measurement using $a^2 + b^2 = c^2$.

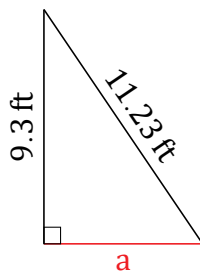
1.



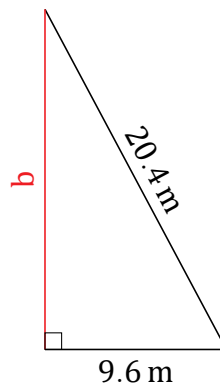
2.



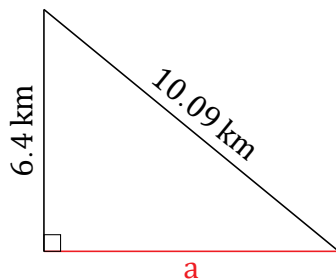
3.



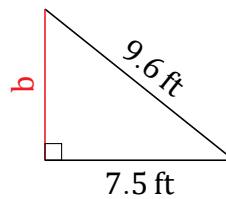
4.



5.



6.



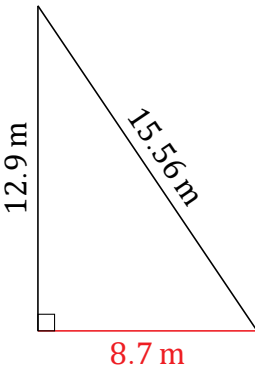
Pythagorean Theorem (C) Answers

Name: _____

Date: _____

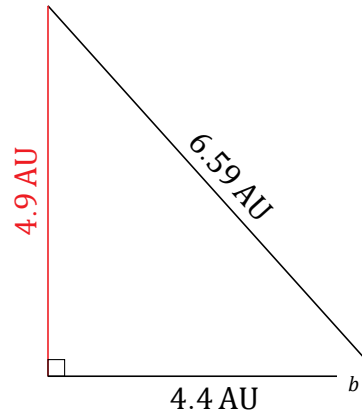
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



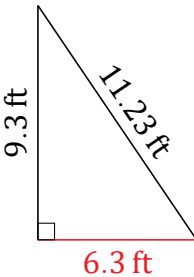
$$\begin{aligned} a^2 + 12.9^2 &= 15.56^2 \\ a &= \sqrt{242.1136 - 166.41} \\ a &= 8.7 \text{ m} \end{aligned}$$

2.



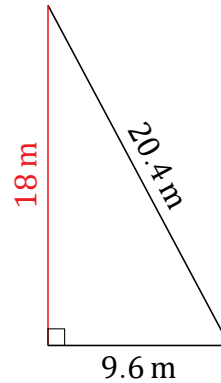
$$\begin{aligned} 4.4^2 + b^2 &= 6.59^2 \\ b &= \sqrt{43.4281 - 19.36} \\ b &= 4.9 \text{ AU} \end{aligned}$$

3.



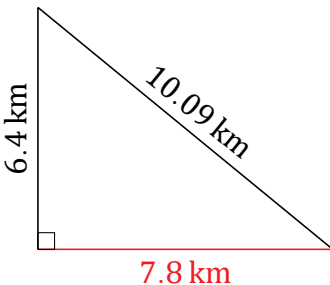
$$\begin{aligned} a^2 + 9.3^2 &= 11.23^2 \\ a &= \sqrt{126.1129 - 86.49} \\ a &= 6.3 \text{ ft} \end{aligned}$$

4.



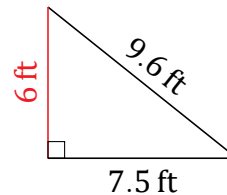
$$\begin{aligned} 9.6^2 + b^2 &= 20.4^2 \\ b &= \sqrt{416.16 - 92.16} \\ b &= 18 \text{ m} \end{aligned}$$

5.



$$\begin{aligned} a^2 + 6.4^2 &= 10.09^2 \\ a &= \sqrt{101.8081 - 40.96} \\ a &= 7.8 \text{ km} \end{aligned}$$

6.



$$\begin{aligned} 7.5^2 + b^2 &= 9.6^2 \\ b &= \sqrt{92.16 - 56.25} \\ b &= 6 \text{ ft} \end{aligned}$$