

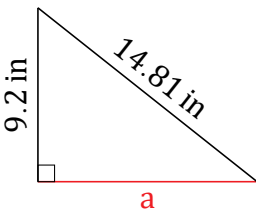
Pythagorean Theorem (H)

Name: _____

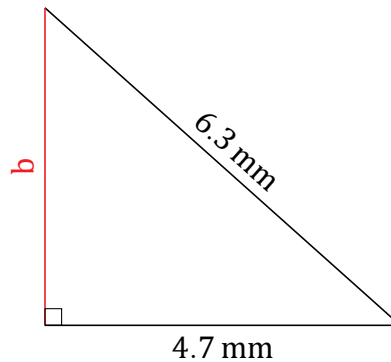
Date: _____

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

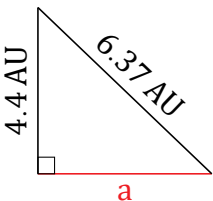
1.



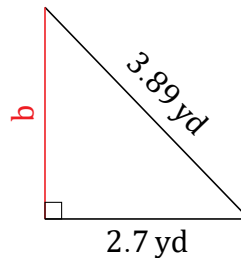
2.



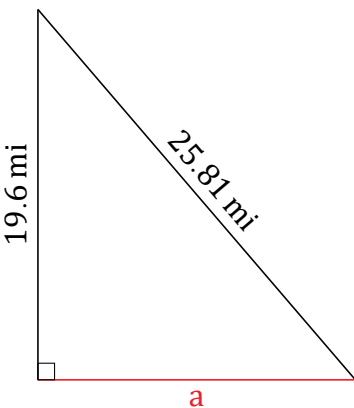
3.



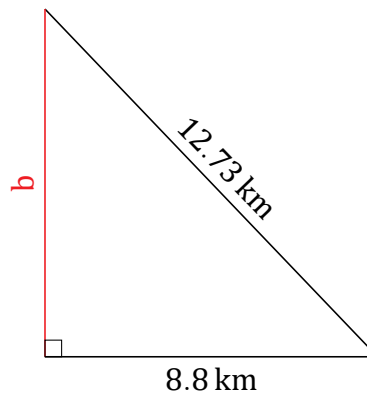
4.



5.



6.



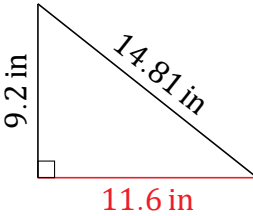
Pythagorean Theorem (H) Answers

Name: _____

Date: _____

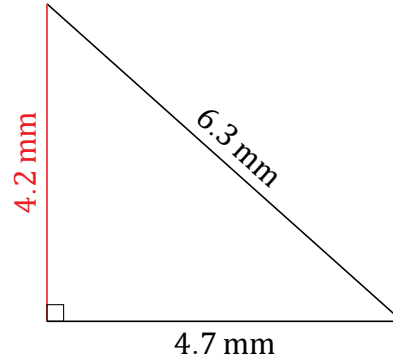
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



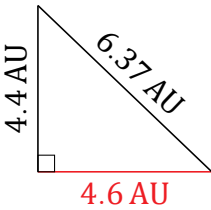
$$\begin{aligned} a^2 + 9.2^2 &= 14.81^2 \\ a &= \sqrt{219.3361 - 84.64} \\ a &= 11.6 \text{ in} \end{aligned}$$

2.



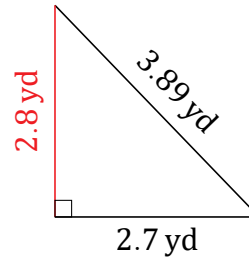
$$\begin{aligned} 4.7^2 + b^2 &= 6.3^2 \\ b &= \sqrt{39.69 - 22.09} \\ b &= 4.2 \text{ mm} \end{aligned}$$

3.



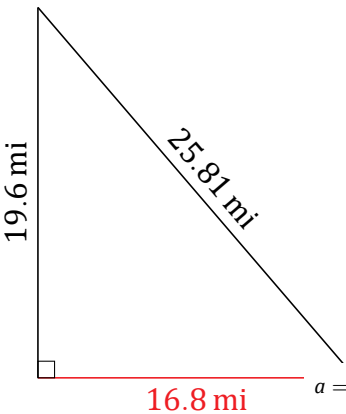
$$\begin{aligned} a^2 + 4.4^2 &= 6.37^2 \\ a &= \sqrt{40.5769 - 19.36} \\ a &= 4.6 \text{ AU} \end{aligned}$$

4.



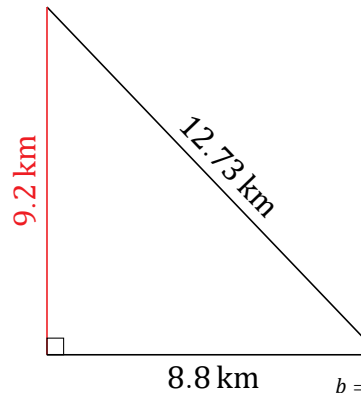
$$\begin{aligned} 2.7^2 + b^2 &= 3.89^2 \\ b &= \sqrt{15.1321 - 7.29} \\ b &= 2.8 \text{ yd} \end{aligned}$$

5.



$$\begin{aligned} a^2 + 19.6^2 &= 25.81^2 \\ a &= \sqrt{666.1561 - 384.16} \\ a &= 16.8 \text{ mi} \end{aligned}$$

6.



$$\begin{aligned} 8.8^2 + b^2 &= 12.73^2 \\ b &= \sqrt{162.0529 - 77.44} \\ b &= 9.2 \text{ km} \end{aligned}$$