

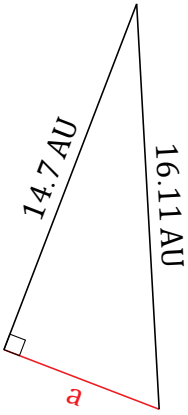
Pythagorean Theorem (C)

Name: _____

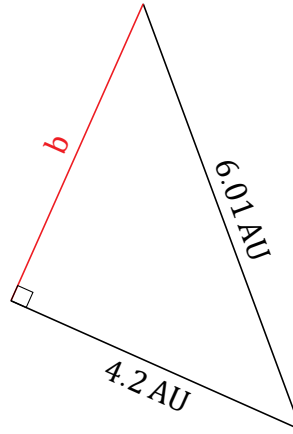
Date: _____

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

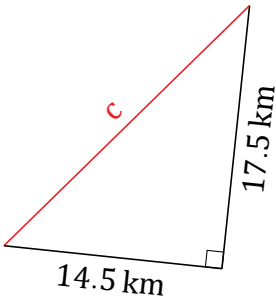
1.



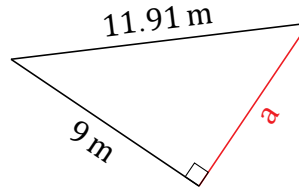
2.



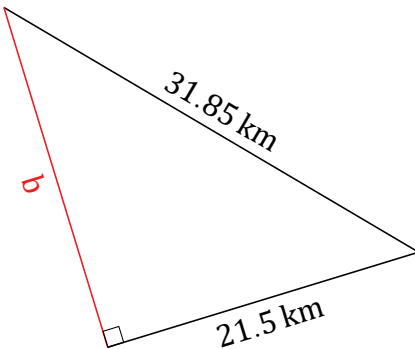
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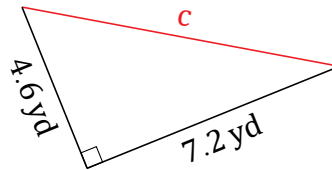
4.



5.



6.



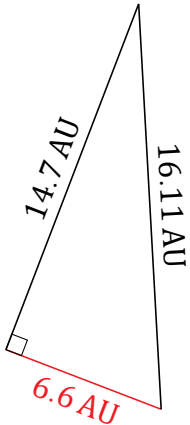
Pythagorean Theorem (C) Answers

Name: _____

Date: _____

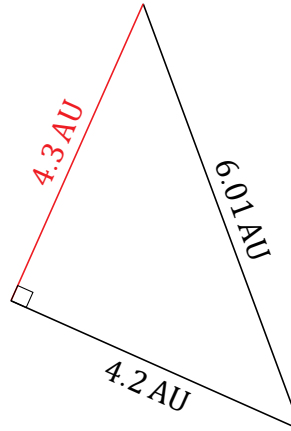
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



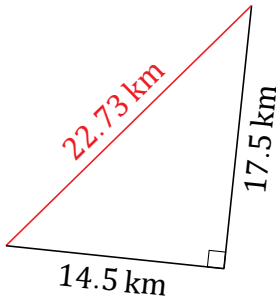
$$\begin{aligned} a^2 + 14.7^2 &= 16.11^2 \\ a &= \sqrt{259.5321 - 216.09} \\ a &= 6.6 \text{ AU} \end{aligned}$$

2.



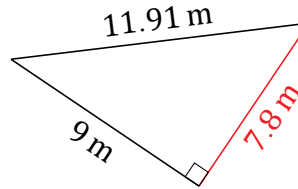
$$\begin{aligned} 4.2^2 + b^2 &= 6.01^2 \\ b &= \sqrt{36.1201 - 17.64} \\ b &= 4.3 \text{ AU} \end{aligned}$$

3.



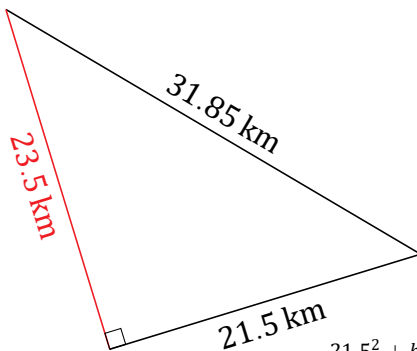
$$\begin{aligned} 17.5^2 + 14.5^2 &= c^2 \\ c &= \sqrt{306.25 + 210.25} \\ c &= 22.73 \text{ km} \end{aligned}$$

4.



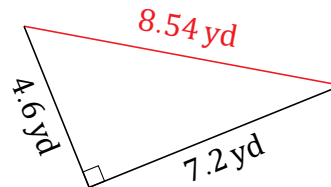
$$\begin{aligned} a^2 + 9^2 &= 11.91^2 \\ a &= \sqrt{141.8481 - 81} \\ a &= 7.8 \text{ m} \end{aligned}$$

5.



$$\begin{aligned} 21.5^2 + b^2 &= 31.85^2 \\ b &= \sqrt{1014.4225 - 462.25} \\ b &= 23.5 \text{ km} \end{aligned}$$

6.



$$\begin{aligned} 7.2^2 + 4.6^2 &= c^2 \\ c &= \sqrt{51.84 + 21.16} \\ c &= 8.54 \text{ yd} \end{aligned}$$