

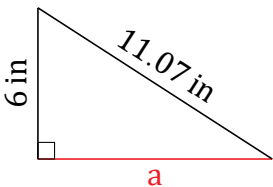
Pythagorean Theorem (E)

Name: _____

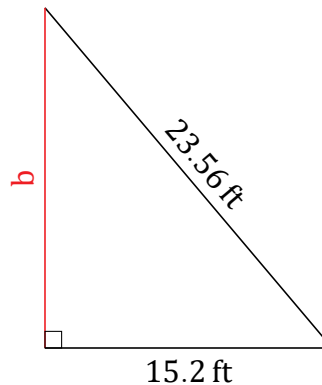
Date: _____

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

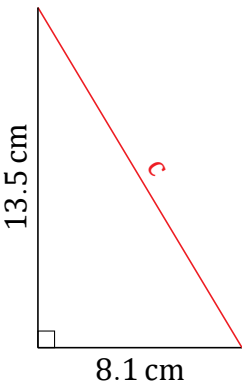
1.



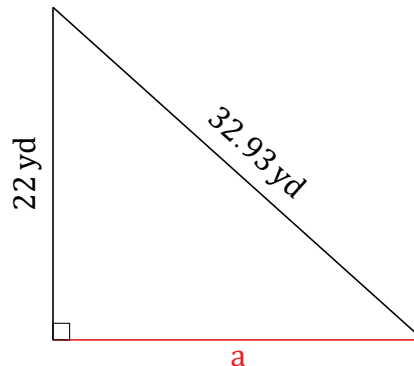
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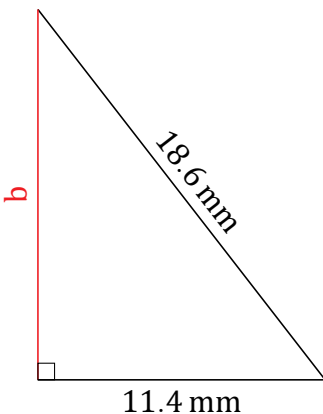
3.



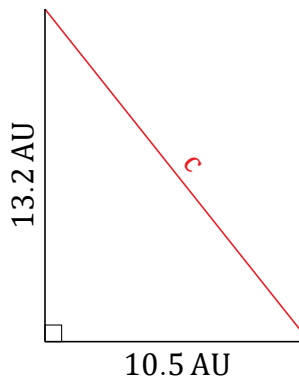
4.



5.



6.



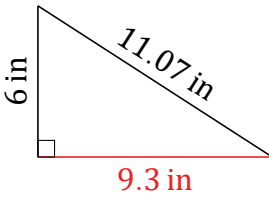
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

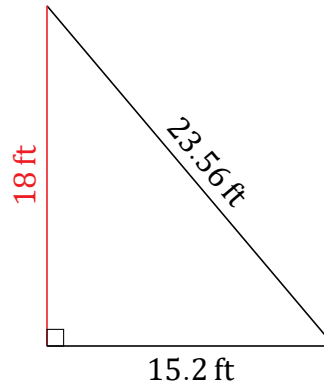
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



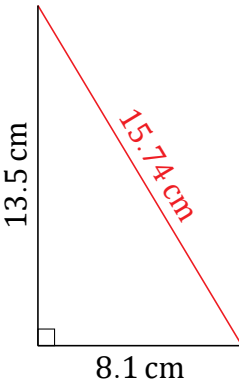
$$\begin{aligned} a^2 + 6^2 &= 11.07^2 \\ a &= \sqrt{122.5449 - 36} \\ a &= 9.3 \text{ in} \end{aligned}$$

2.



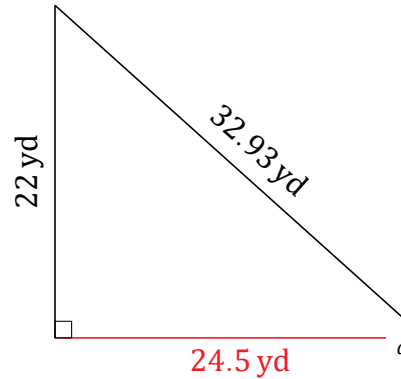
$$\begin{aligned} 15.2^2 + b^2 &= 23.56^2 \\ b &= \sqrt{555.0736 - 231.04} \\ b &= 18 \text{ ft} \end{aligned}$$

3.



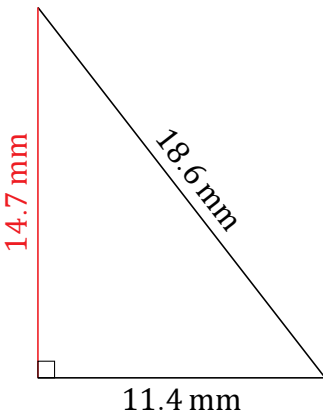
$$\begin{aligned} 8.1^2 + 13.5^2 &= c^2 \\ c &= \sqrt{65.61 + 182.25} \\ c &= 15.74 \text{ cm} \end{aligned}$$

4.



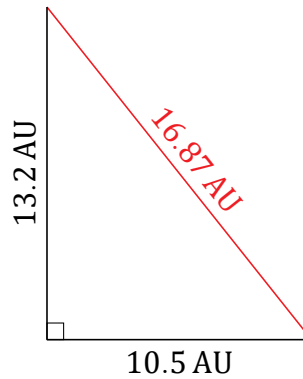
$$\begin{aligned} a^2 + 22^2 &= 32.93^2 \\ a &= \sqrt{1084.3849 - 484} \\ a &= 24.5 \text{ yd} \end{aligned}$$

5.



$$\begin{aligned} 11.4^2 + b^2 &= 18.6^2 \\ b &= \sqrt{345.96 - 129.96} \\ b &= 14.7 \text{ mm} \end{aligned}$$

6.



$$\begin{aligned} 10.5^2 + 13.2^2 &= c^2 \\ c &= \sqrt{110.25 + 174.24} \\ c &= 16.87 \text{ AU} \end{aligned}$$