

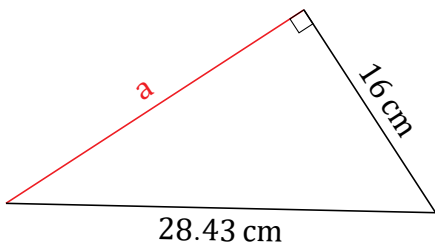
Pythagorean Theorem (J)

Name: _____

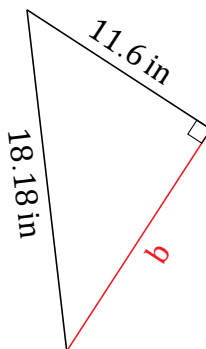
Date: _____

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

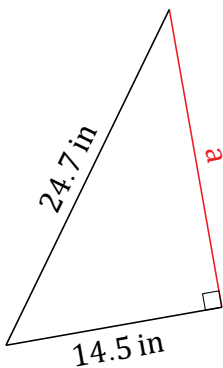
1.



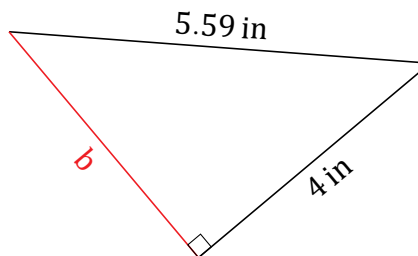
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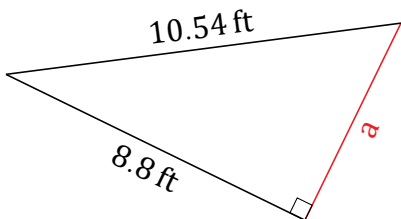
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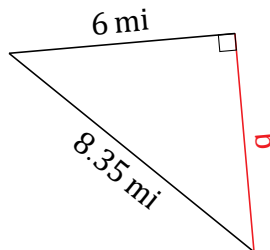
4.



5.



6.



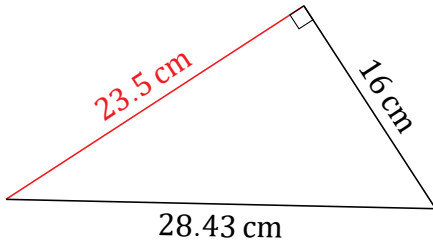
Pythagorean Theorem (J) Answers

Name: _____

Date: _____

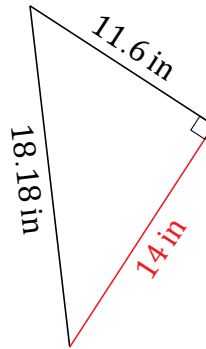
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



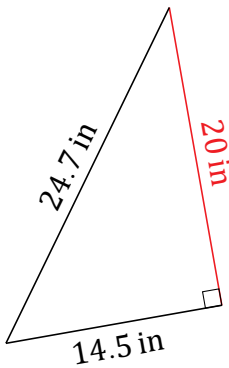
$$\begin{aligned} a^2 + 16^2 &= 28.43^2 \\ a &= \sqrt{808.2649 - 256} \\ a &= 23.5 \text{ cm} \end{aligned}$$

2.



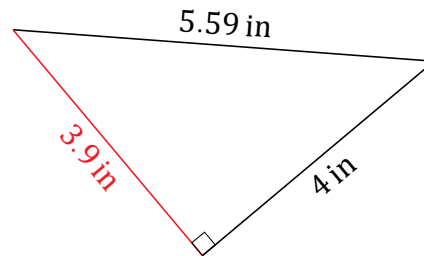
$$\begin{aligned} 11.6^2 + b^2 &= 18.18^2 \\ b &= \sqrt{330.5124 - 134.56} \\ b &= 14 \text{ in} \end{aligned}$$

3.



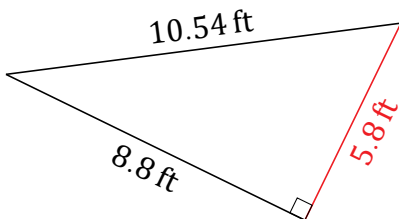
$$\begin{aligned} a^2 + 14.5^2 &= 24.7^2 \\ a &= \sqrt{610.09 - 210.25} \\ a &= 20 \text{ in} \end{aligned}$$

4.



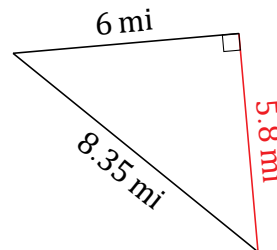
$$\begin{aligned} 4^2 + b^2 &= 5.59^2 \\ b &= \sqrt{31.2481 - 16} \\ b &= 3.9 \text{ in} \end{aligned}$$

5.



$$\begin{aligned} a^2 + 8.8^2 &= 10.54^2 \\ a &= \sqrt{111.0916 - 77.44} \\ a &= 5.8 \text{ ft} \end{aligned}$$

6.



$$\begin{aligned} 6^2 + b^2 &= 8.35^2 \\ b &= \sqrt{69.7225 - 36} \\ b &= 5.8 \text{ mi} \end{aligned}$$