

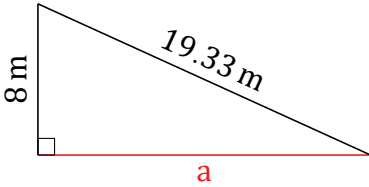
Pythagorean Theorem (F)

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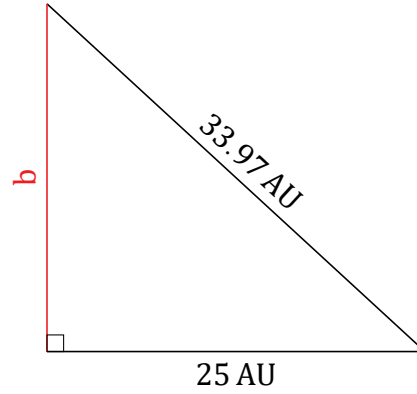
Date: _____

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

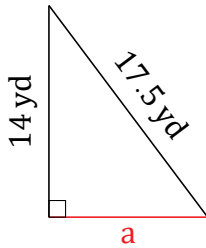
1.



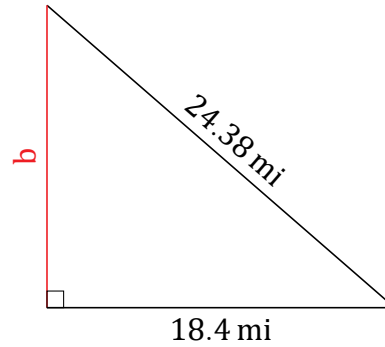
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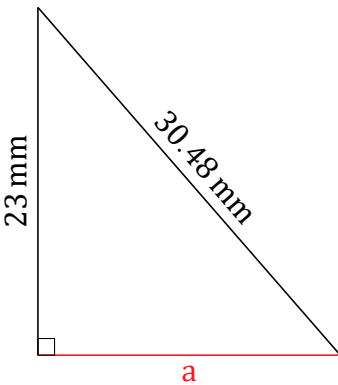
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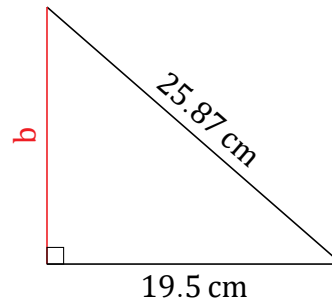
4.



5.



6.

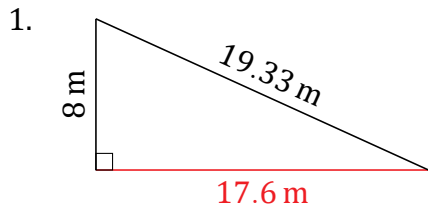


Pythagorean Theorem (F) Answers

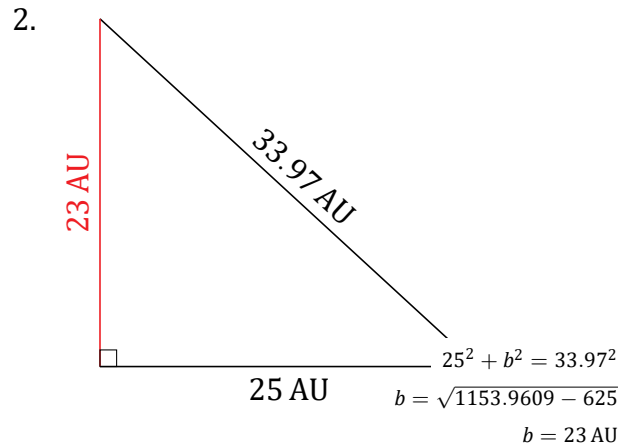
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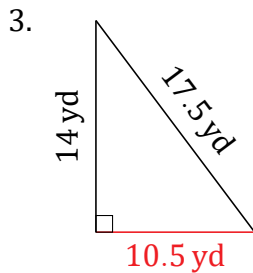
Calculate the missing side measurement using $a^2 + b^2 = c^2$.



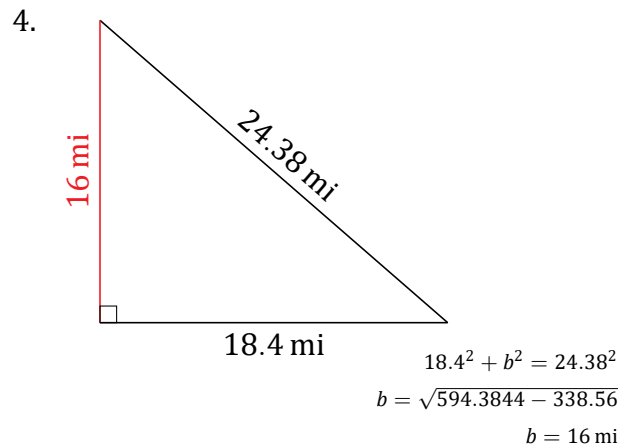
$$\begin{aligned}a^2 + 8^2 &= 19.33^2 \\a &= \sqrt{373.6489 - 64} \\a &= 17.6 \text{ m}\end{aligned}$$



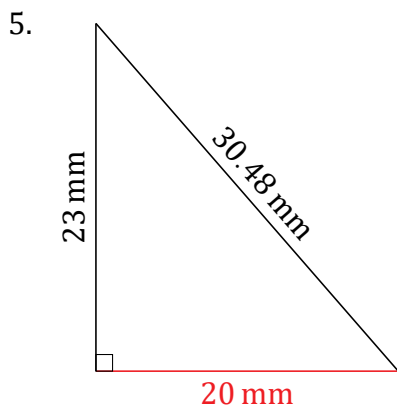
$$\begin{aligned}25^2 + b^2 &= 33.97^2 \\b &= \sqrt{1153.9609 - 625} \\b &= 23 \text{ AU}\end{aligned}$$



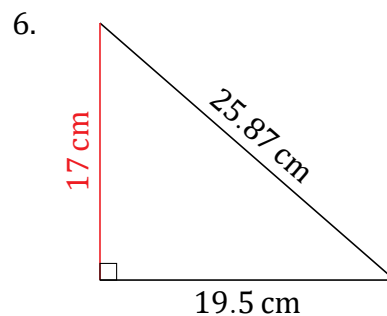
$$\begin{aligned}a^2 + 14^2 &= 17.5^2 \\a &= \sqrt{306.25 - 196} \\a &= 10.5 \text{ yd}\end{aligned}$$



$$\begin{aligned}18.4^2 + b^2 &= 24.38^2 \\b &= \sqrt{594.3844 - 338.56} \\b &= 16 \text{ mi}\end{aligned}$$



$$\begin{aligned}a^2 + 23^2 &= 30.48^2 \\a &= \sqrt{929.0304 - 529} \\a &= 20 \text{ mm}\end{aligned}$$



$$\begin{aligned}19.5^2 + b^2 &= 25.87^2 \\b &= \sqrt{669.2569 - 380.25} \\b &= 17 \text{ cm}\end{aligned}$$