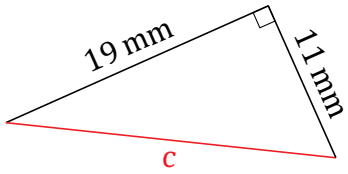
# Pythagorean Theorem (J)

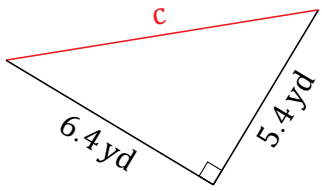
Name: _____ Date: _____

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

1.




2.

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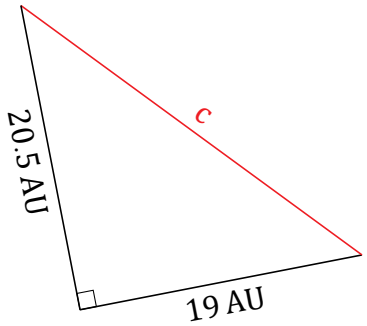


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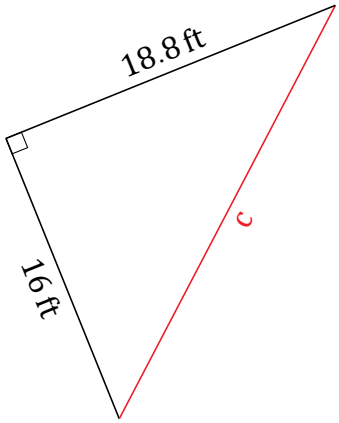


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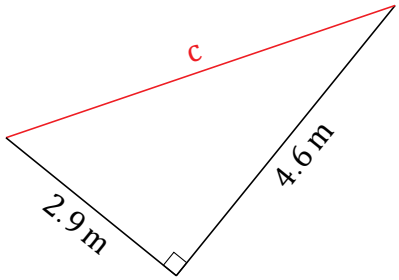


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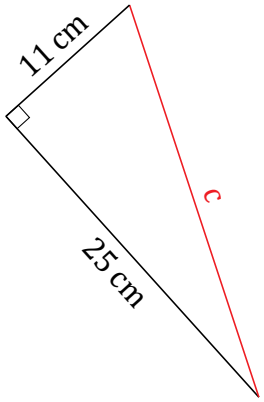
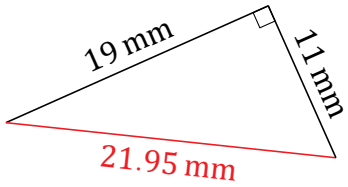


# Pythagorean Theorem (J) Answers

Name: _____ Date: _____

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

1.

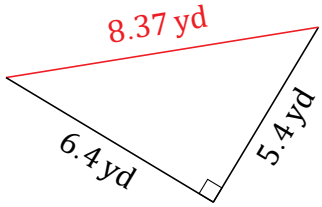



$19^2 + 11^2 = c^2$

$c = \sqrt{361 + 121}$

$c = 21.95\,\text{mm}$

2.

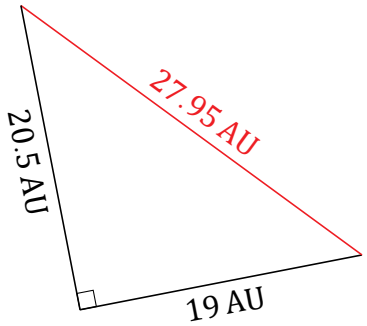



$5.4^2 + 6.4^2 = c^2$

$c = \sqrt{29.16 + 40.96}$

$c = 8.37\,\text{yd}$

3.

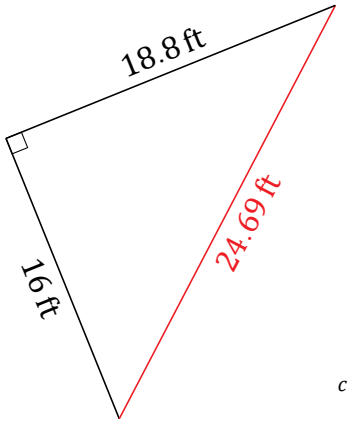



$19^2 + 20.5^2 = c^2$

$c = \sqrt{361 + 420.25}$

$c = 27.95\,\text{AU}$

4.

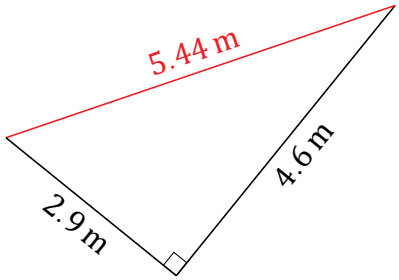



$16^2 + 18.8^2 = c^2$

$c = \sqrt{256 + 353.44}$

$c = 24.69\,\text{ft}$

5.

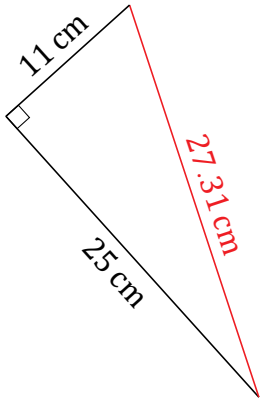



$4.6^2 + 2.9^2 = c^2$

$c = \sqrt{21.16 + 8.41}$

$c = 5.44\,\text{m}$

6.




$25^2 + 11^2 = c^2$

$c = \sqrt{625 + 121}$

$c = 27.31\,\text{cm}$