

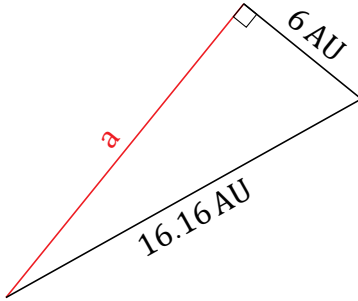
# Pythagorean Theorem (F)

Name: \_\_\_\_\_

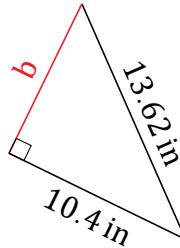
Date: \_\_\_\_\_

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

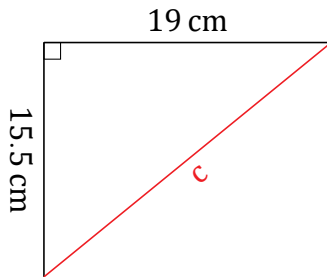
1.



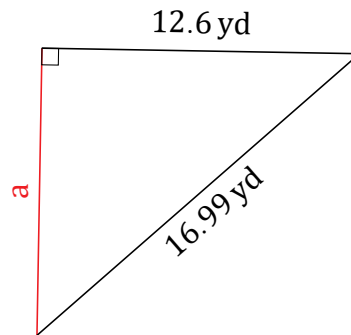
2.



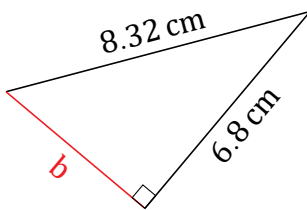
3.



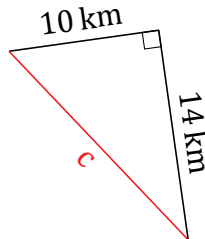
4.



5.



6.



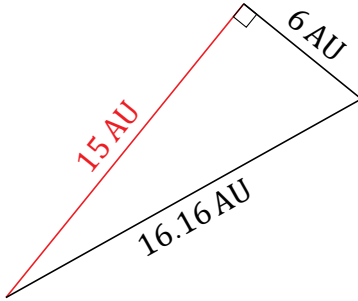
# Pythagorean Theorem (F) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

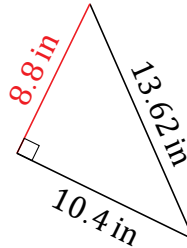
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



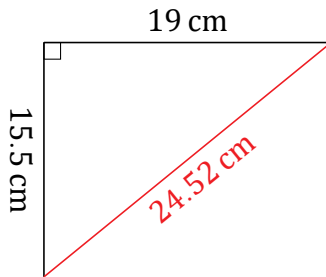
$$\begin{aligned} a^2 + 6^2 &= 16.16^2 \\ a &= \sqrt{261.1456 - 36} \\ a &= 15 \text{ AU} \end{aligned}$$

2.



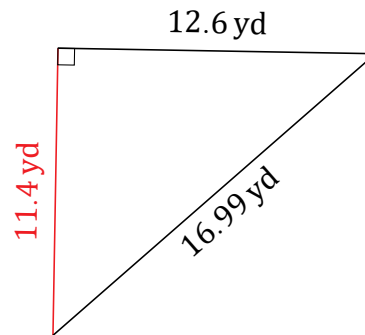
$$\begin{aligned} 10.4^2 + b^2 &= 13.62^2 \\ b &= \sqrt{185.5044 - 108.16} \\ b &= 8.8 \text{ in} \end{aligned}$$

3.



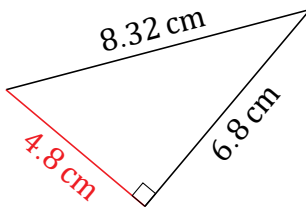
$$\begin{aligned} 15.5^2 + 19^2 &= c^2 \\ c &= \sqrt{240.25 + 361} \\ c &= 24.52 \text{ cm} \end{aligned}$$

4.



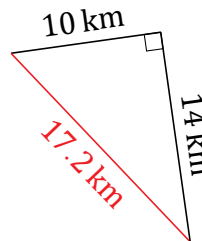
$$\begin{aligned} a^2 + 12.6^2 &= 16.99^2 \\ a &= \sqrt{288.6601 - 158.76} \\ a &= 11.4 \text{ yd} \end{aligned}$$

5.



$$\begin{aligned} 6.8^2 + b^2 &= 8.32^2 \\ b &= \sqrt{69.2224 - 46.24} \\ b &= 4.8 \text{ cm} \end{aligned}$$

6.



$$\begin{aligned} 10^2 + 14^2 &= c^2 \\ c &= \sqrt{100 + 196} \\ c &= 17.2 \text{ km} \end{aligned}$$