

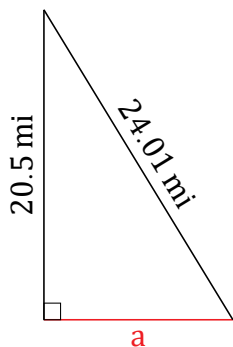
Pythagorean Theorem (A)

Name: _____

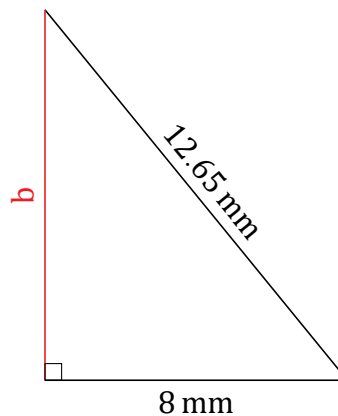
Date: _____

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

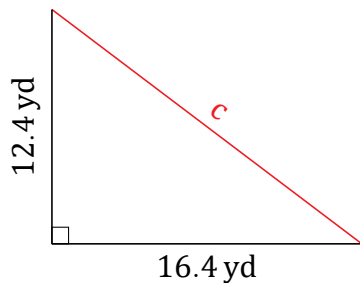
1.



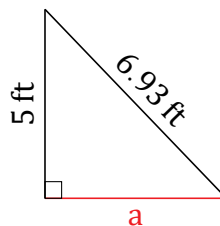
2.



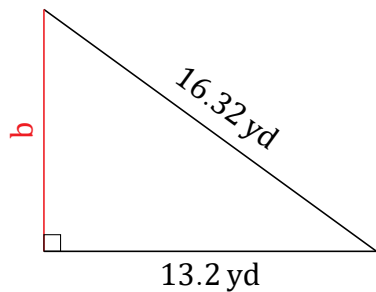
3.



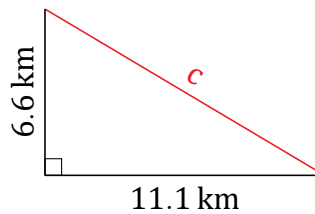
4.



5.



6.



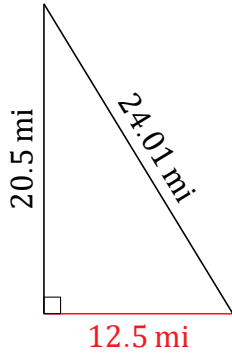
Pythagorean Theorem (A) Answers

Name: _____

Date: _____

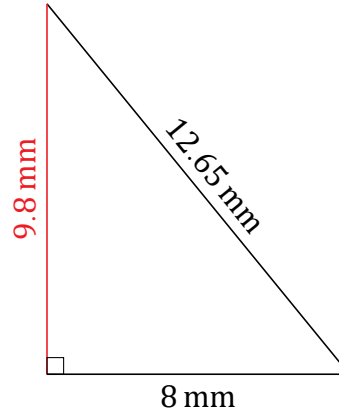
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



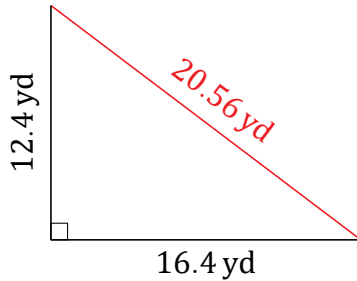
$$\begin{aligned} a^2 + 20.5^2 &= 24.01^2 \\ a &= \sqrt{576.4801 - 420.25} \\ a &= 12.5 \text{ mi} \end{aligned}$$

2.



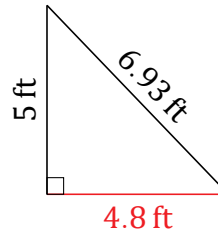
$$\begin{aligned} 8^2 + b^2 &= 12.65^2 \\ b &= \sqrt{160.0225 - 64} \\ b &= 9.8 \text{ mm} \end{aligned}$$

3.



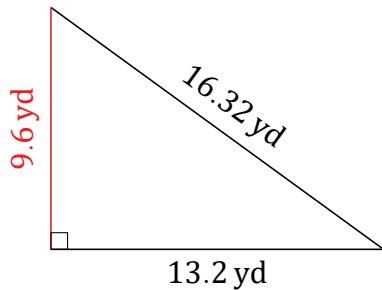
$$\begin{aligned} 16.4^2 + 12.4^2 &= c^2 \\ c &= \sqrt{268.96 + 153.76} \\ c &= 20.56 \text{ yd} \end{aligned}$$

4.



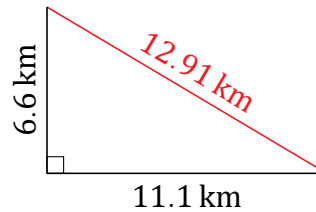
$$\begin{aligned} a^2 + 5^2 &= 6.93^2 \\ a &= \sqrt{48.0249 - 25} \\ a &= 4.8 \text{ ft} \end{aligned}$$

5.



$$\begin{aligned} 13.2^2 + b^2 &= 16.32^2 \\ b &= \sqrt{266.3424 - 174.24} \\ b &= 9.6 \text{ yd} \end{aligned}$$

6.



$$\begin{aligned} 11.1^2 + 6.6^2 &= c^2 \\ c &= \sqrt{123.21 + 43.56} \\ c &= 12.91 \text{ km} \end{aligned}$$