

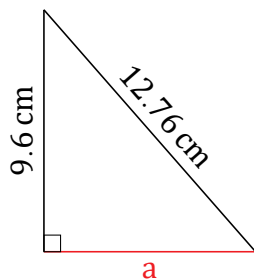
Pythagorean Theorem (I)

Name: _____

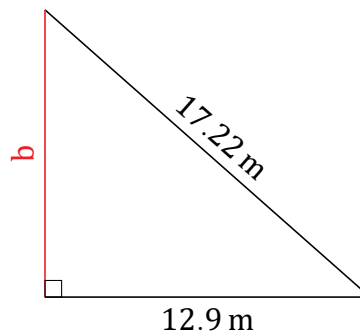
Date: _____

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

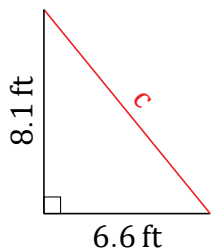
1.



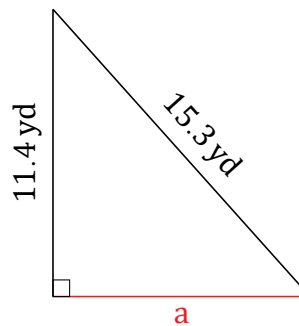
2.



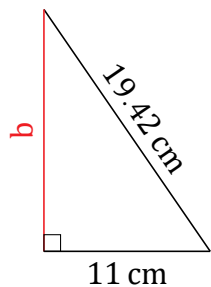
3.



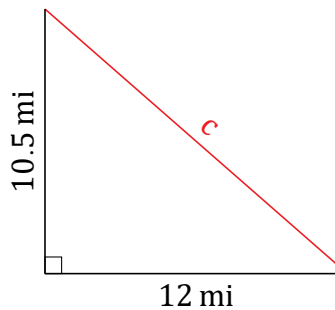
4.



5.



6.



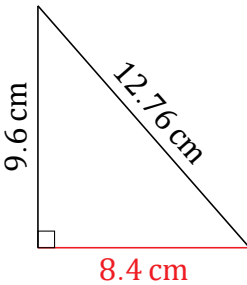
Pythagorean Theorem (I) Answers

Name: _____

Date: _____

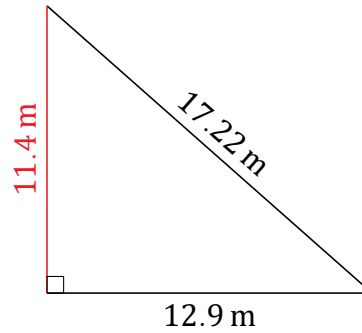
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



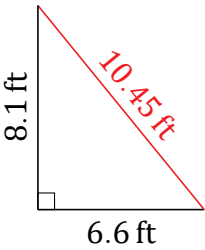
$$a^2 + 9.6^2 = 12.76^2$$
$$a = \sqrt{162.8176 - 92.16}$$
$$a = 8.4 \text{ cm}$$

2.



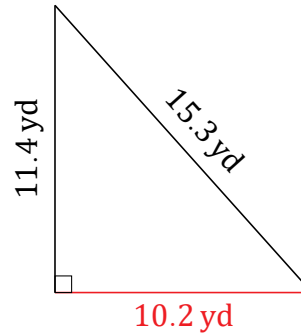
$$12.9^2 + b^2 = 17.22^2$$
$$b = \sqrt{296.5284 - 166.41}$$
$$b = 11.4 \text{ m}$$

3.



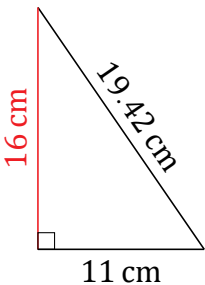
$$6.6^2 + 8.1^2 = c^2$$
$$c = \sqrt{43.56 + 65.61}$$
$$c = 10.45 \text{ ft}$$

4.



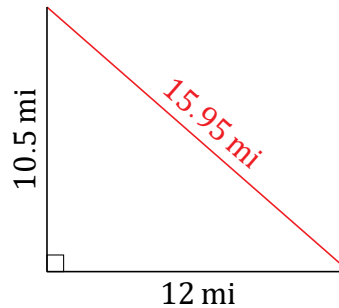
$$a^2 + 11.4^2 = 15.3^2$$
$$a = \sqrt{234.09 - 129.96}$$
$$a = 10.2 \text{ yd}$$

5.



$$11^2 + b^2 = 19.42^2$$
$$b = \sqrt{377.1364 - 121}$$
$$b = 16 \text{ cm}$$

6.



$$12^2 + 10.5^2 = c^2$$
$$c = \sqrt{144 + 110.25}$$
$$c = 15.95 \text{ mi}$$