

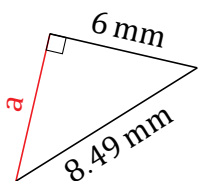
# Pythagorean Theorem (A)

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

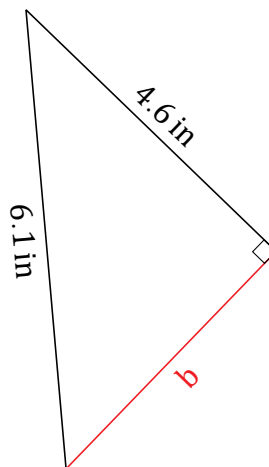
Date: \_\_\_\_\_

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

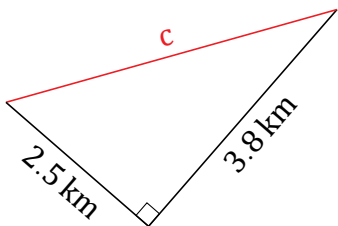
1.



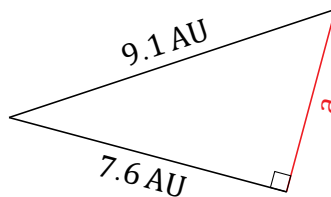
2.



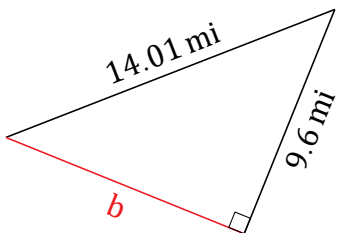
3.



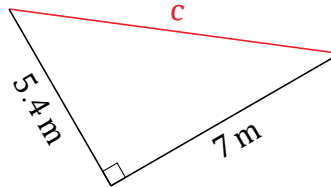
4.



5.



6.



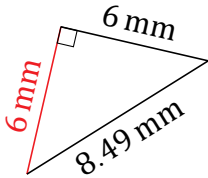
# Pythagorean Theorem (A) Answers

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

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

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

1.

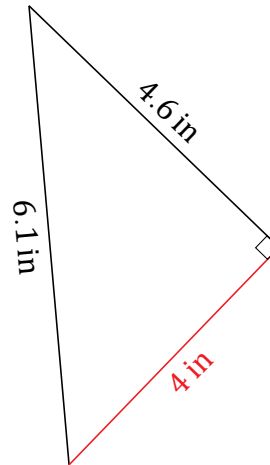


$$a^2 + 6^2 = 8.49^2$$

$$a = \sqrt{72.0801 - 36}$$

$$a = 6 \text{ mm}$$

2.

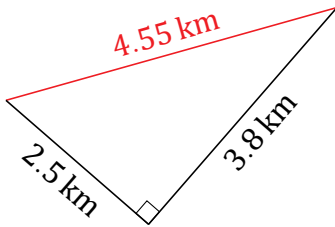


$$4.6^2 + b^2 = 6.1^2$$

$$b = \sqrt{37.21 - 21.16}$$

$$b = 4 \text{ in}$$

3.

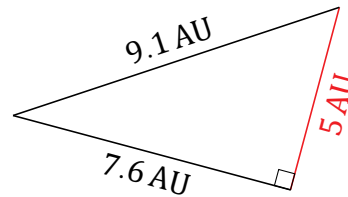


$$3.8^2 + 2.5^2 = c^2$$

$$c = \sqrt{14.44 + 6.25}$$

$$c = 4.55 \text{ km}$$

4.

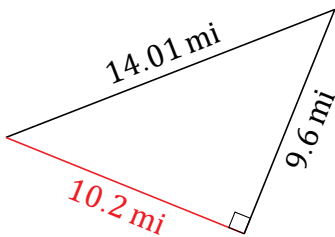


$$a^2 + 7.6^2 = 9.1^2$$

$$a = \sqrt{82.81 - 57.76}$$

$$a = 5 \text{ AU}$$

5.

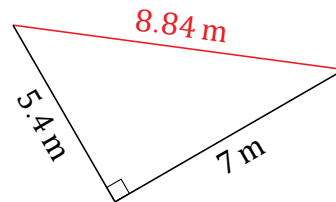


$$9.6^2 + b^2 = 14.01^2$$

$$b = \sqrt{196.2801 - 92.16}$$

$$b = 10.2 \text{ mi}$$

6.



$$7^2 + 5.4^2 = c^2$$

$$c = \sqrt{49 + 29.16}$$

$$c = 8.84 \text{ m}$$