

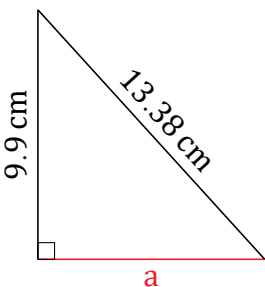
# Pythagorean Theorem (A)

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

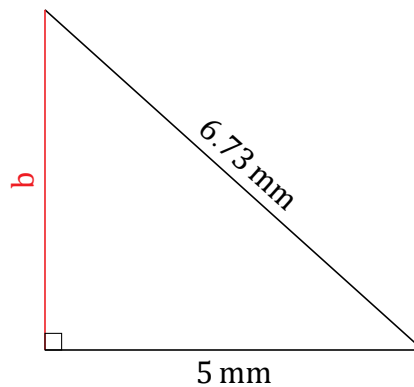
Date: \_\_\_\_\_

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

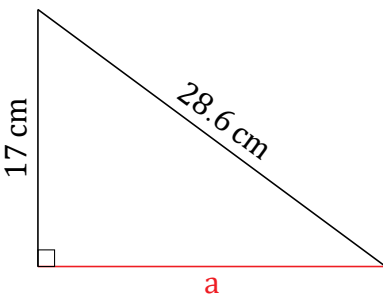
1.



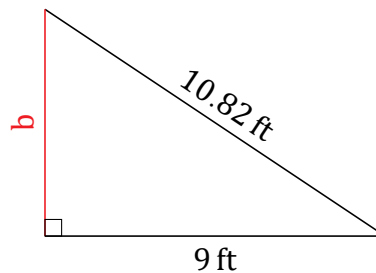
2.



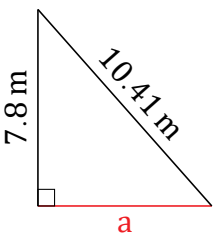
3.



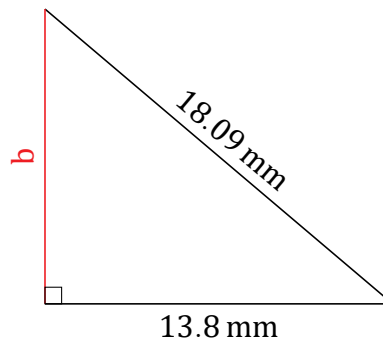
4.



5.



6.



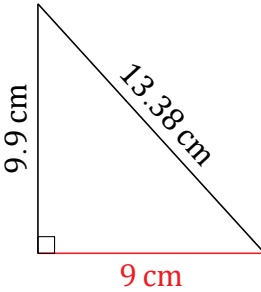
# Pythagorean Theorem (A) Answers

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

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

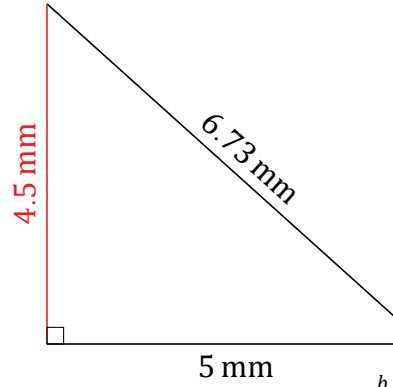
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



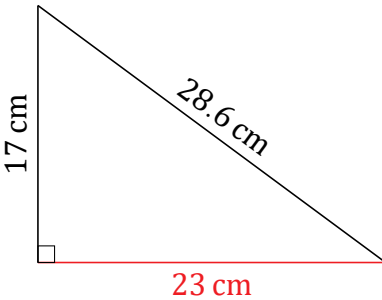
$$\begin{aligned}a^2 + 9.9^2 &= 13.38^2 \\a &= \sqrt{179.0244 - 98.01} \\a &= 9 \text{ cm}\end{aligned}$$

2.



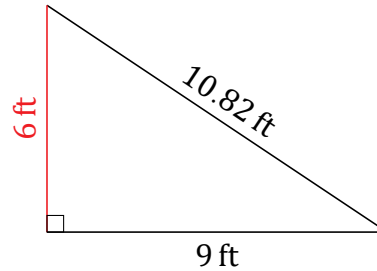
$$\begin{aligned}5^2 + b^2 &= 6.73^2 \\b &= \sqrt{45.2929 - 25} \\b &= 4.5 \text{ mm}\end{aligned}$$

3.



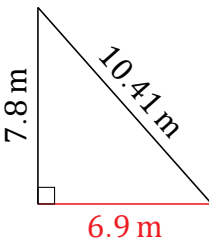
$$\begin{aligned}a^2 + 17^2 &= 28.6^2 \\a &= \sqrt{817.96 - 289} \\a &= 23 \text{ cm}\end{aligned}$$

4.



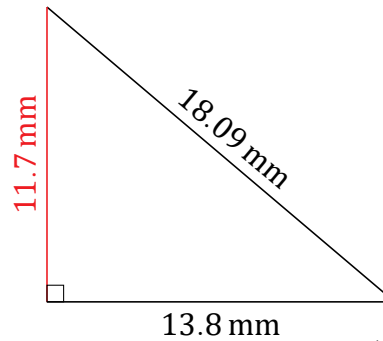
$$\begin{aligned}9^2 + b^2 &= 10.82^2 \\b &= \sqrt{117.0724 - 81} \\b &= 6 \text{ ft}\end{aligned}$$

5.



$$\begin{aligned}a^2 + 7.8^2 &= 10.41^2 \\a &= \sqrt{108.3681 - 60.84} \\a &= 6.9 \text{ m}\end{aligned}$$

6.



$$\begin{aligned}13.8^2 + b^2 &= 18.09^2 \\b &= \sqrt{327.2481 - 190.44} \\b &= 11.7 \text{ mm}\end{aligned}$$

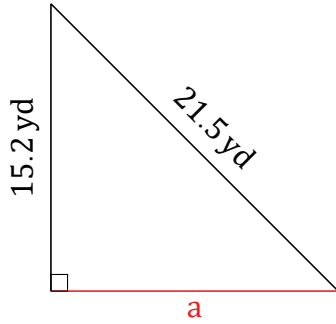
# Pythagorean Theorem (B)

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

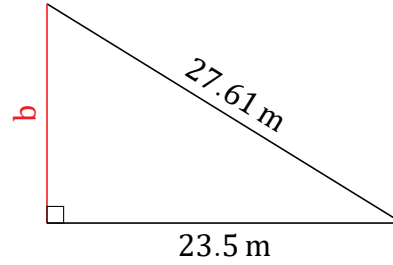
Date: \_\_\_\_\_

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

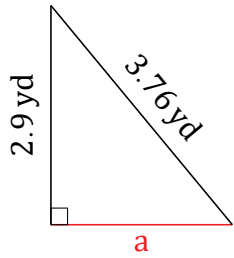
1.



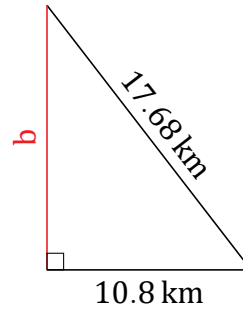
2.



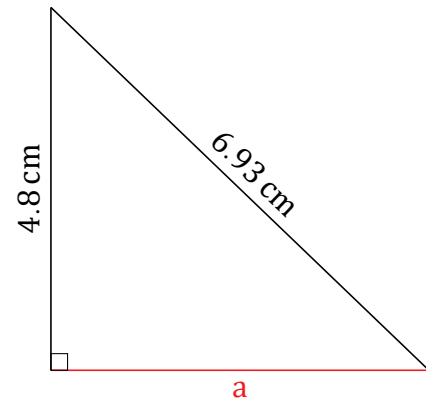
3.



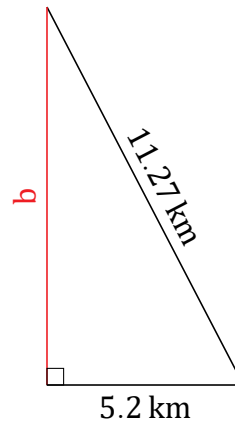
4.



5.



6.



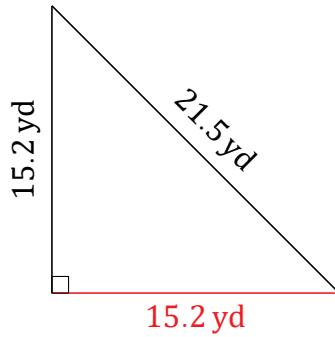
# Pythagorean Theorem (B) Answers

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

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

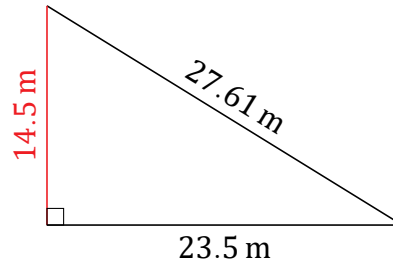
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



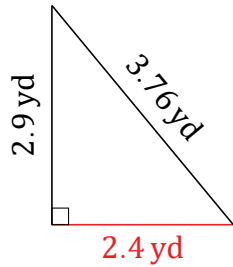
$$a^2 + 15.2^2 = 21.5^2$$
$$a = \sqrt{462.25 - 231.04}$$
$$a = 15.2 \text{ yd}$$

2.



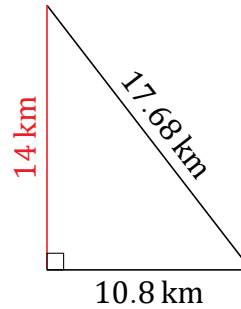
$$23.5^2 + b^2 = 27.61^2$$
$$b = \sqrt{762.3121 - 552.25}$$
$$b = 14.5 \text{ m}$$

3.



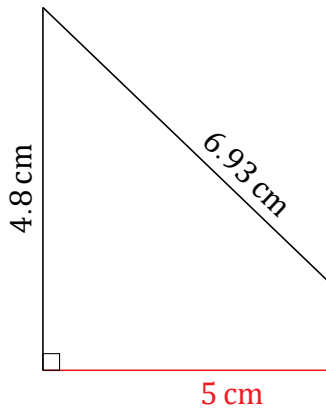
$$a^2 + 2.9^2 = 3.76^2$$
$$a = \sqrt{14.1376 - 8.41}$$
$$a = 2.4 \text{ yd}$$

4.



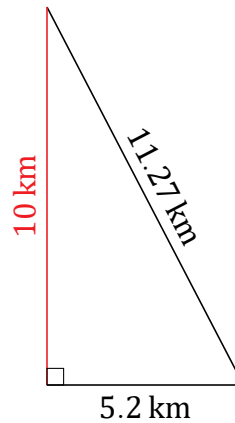
$$10.8^2 + b^2 = 17.68^2$$
$$b = \sqrt{312.5824 - 116.64}$$
$$b = 14 \text{ km}$$

5.



$$a^2 + 4.8^2 = 6.93^2$$
$$a = \sqrt{48.0249 - 23.04}$$
$$a = 5 \text{ cm}$$

6.



$$5.2^2 + b^2 = 11.27^2$$
$$b = \sqrt{127.0129 - 27.04}$$
$$b = 10 \text{ km}$$

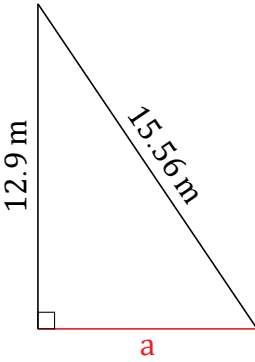
# Pythagorean Theorem (C)

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

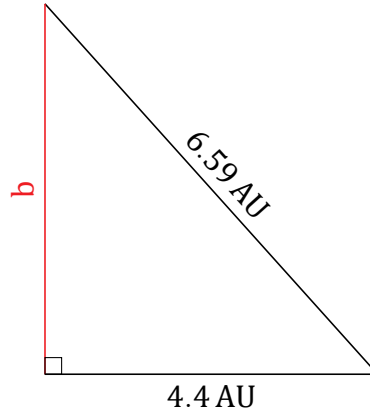
Date: \_\_\_\_\_

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

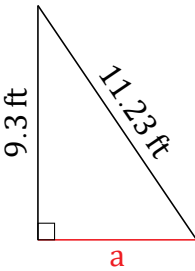
1.



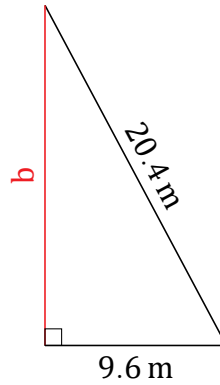
2.



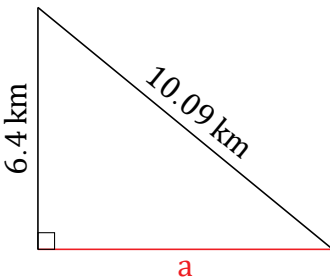
3.



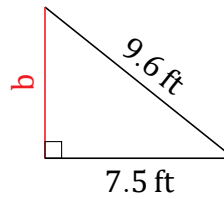
4.



5.



6.



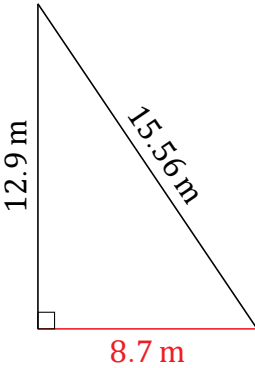
# Pythagorean Theorem (C) Answers

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

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

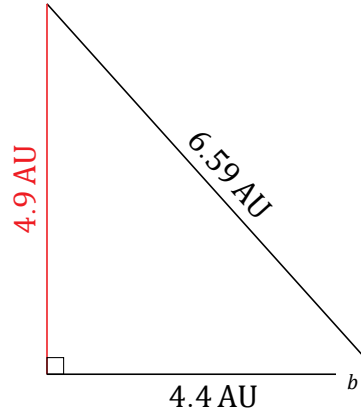
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



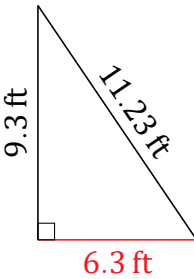
$$a^2 + 12.9^2 = 15.56^2$$
$$a = \sqrt{242.1136 - 166.41}$$
$$a = 8.7 \text{ m}$$

2.



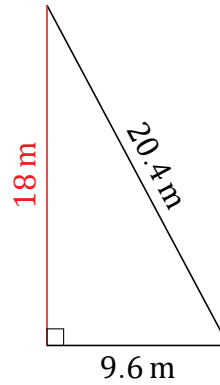
$$4.4^2 + b^2 = 6.59^2$$
$$b = \sqrt{43.4281 - 19.36}$$
$$b = 4.9 \text{ AU}$$

3.



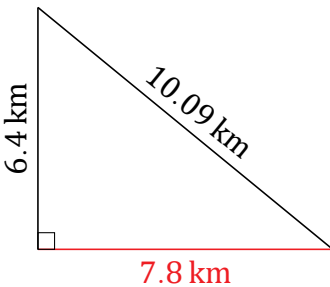
$$a^2 + 9.3^2 = 11.23^2$$
$$a = \sqrt{126.1129 - 86.49}$$
$$a = 6.3 \text{ ft}$$

4.



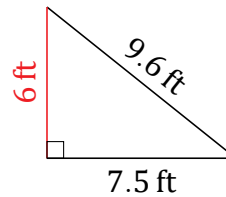
$$9.6^2 + b^2 = 20.4^2$$
$$b = \sqrt{416.16 - 92.16}$$
$$b = 18 \text{ m}$$

5.



$$a^2 + 6.4^2 = 10.09^2$$
$$a = \sqrt{101.8081 - 40.96}$$
$$a = 7.8 \text{ km}$$

6.



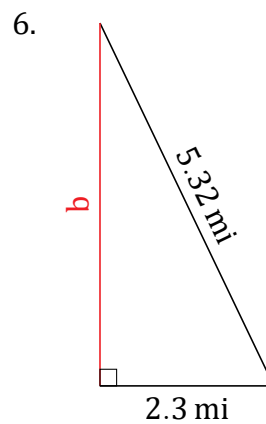
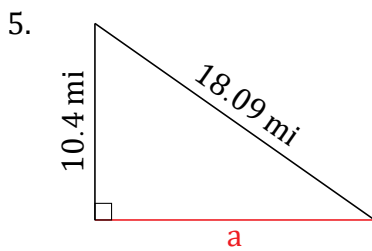
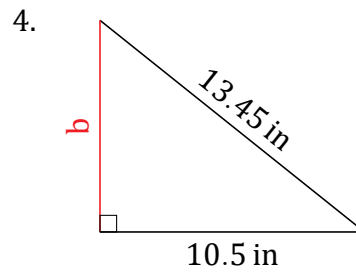
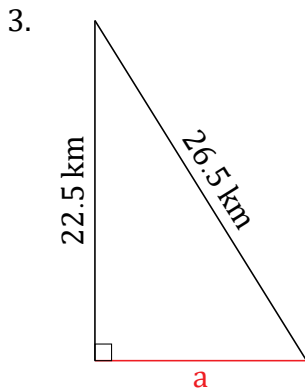
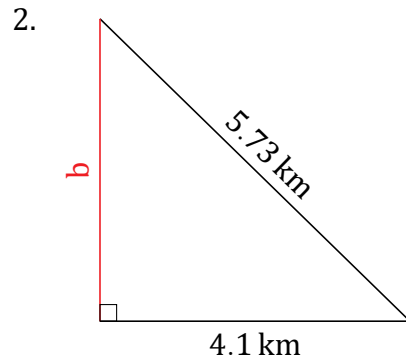
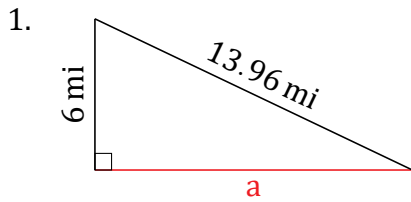
$$7.5^2 + b^2 = 9.6^2$$
$$b = \sqrt{92.16 - 56.25}$$
$$b = 6 \text{ ft}$$

# Pythagorean Theorem (D)

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

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

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

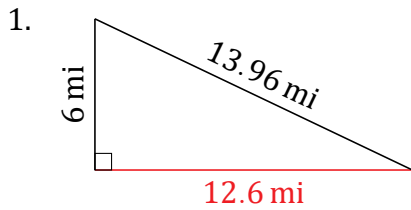


# Pythagorean Theorem (D) Answers

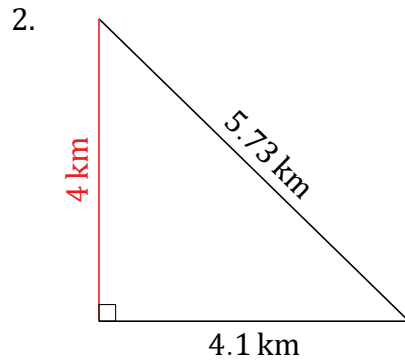
Name: \_\_\_\_\_

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

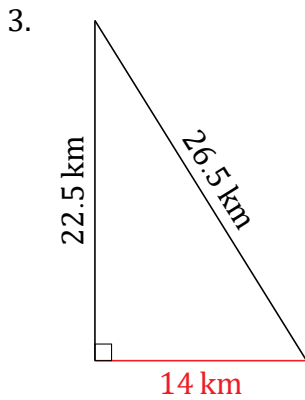
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .



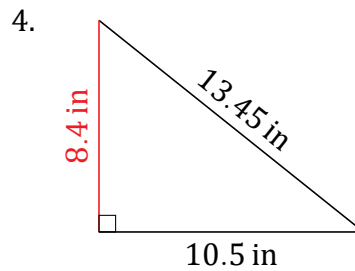
$$a^2 + 6^2 = 13.96^2$$
$$a = \sqrt{194.8816 - 36}$$
$$a = 12.6 \text{ mi}$$



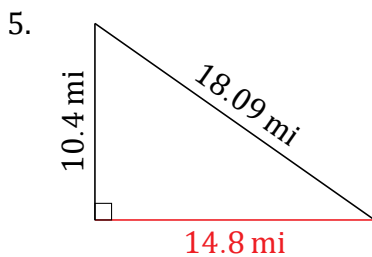
$$4.1^2 + b^2 = 5.73^2$$
$$b = \sqrt{32.8329 - 16.81}$$
$$b = 4 \text{ km}$$



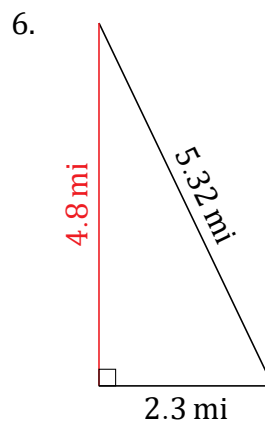
$$a^2 + 22.5^2 = 26.5^2$$
$$a = \sqrt{702.25 - 506.25}$$
$$a = 14 \text{ km}$$



$$10.5^2 + b^2 = 13.45^2$$
$$b = \sqrt{180.9025 - 110.25}$$
$$b = 8.4 \text{ in}$$



$$a^2 + 10.4^2 = 18.09^2$$
$$a = \sqrt{327.2481 - 108.16}$$
$$a = 14.8 \text{ mi}$$



$$2.3^2 + b^2 = 5.32^2$$
$$b = \sqrt{28.3024 - 5.29}$$
$$b = 4.8 \text{ mi}$$



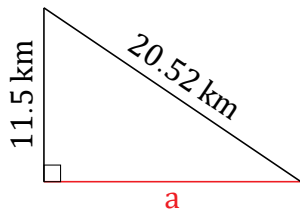
# Pythagorean Theorem (E)

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

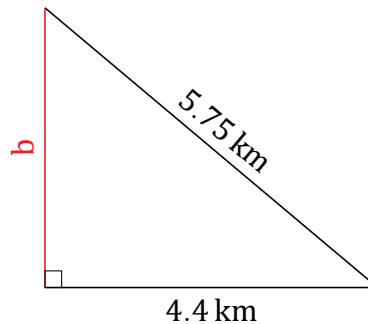
Date: \_\_\_\_\_

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

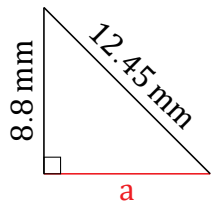
1.



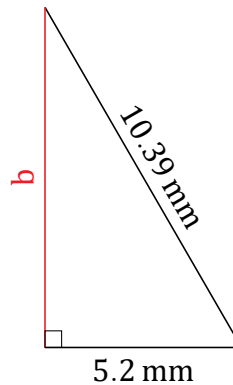
2.



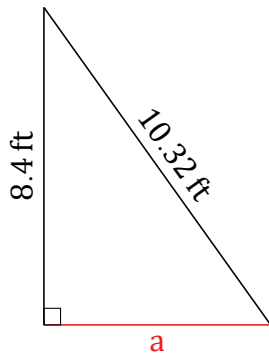
3.



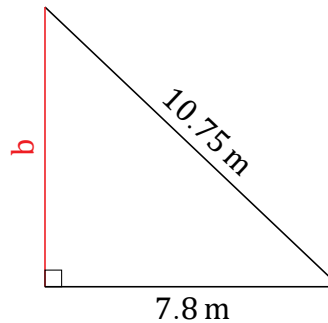
4.



5.



6.



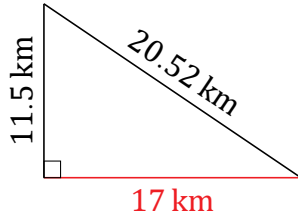
# Pythagorean Theorem (E) Answers

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

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

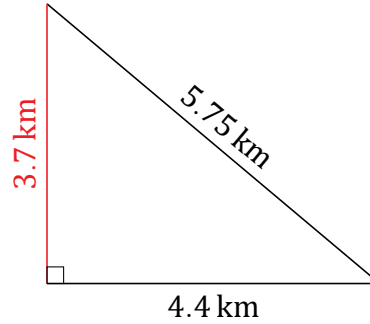
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



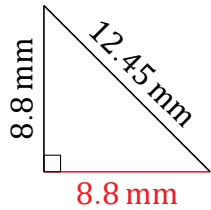
$$a^2 + 11.5^2 = 20.52^2$$
$$a = \sqrt{421.0704 - 132.25}$$
$$a = 17 \text{ km}$$

2.



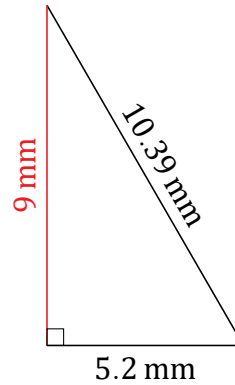
$$4.4^2 + b^2 = 5.75^2$$
$$b = \sqrt{33.0625 - 19.36}$$
$$b = 3.7 \text{ km}$$

3.



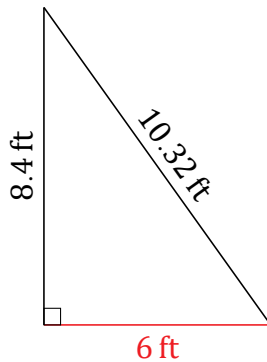
$$a^2 + 8.8^2 = 12.45^2$$
$$a = \sqrt{155.0025 - 77.44}$$
$$a = 8.8 \text{ mm}$$

4.



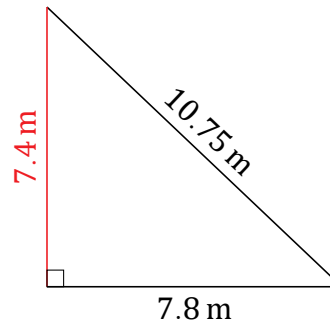
$$5.2^2 + b^2 = 10.39^2$$
$$b = \sqrt{107.9521 - 27.04}$$
$$b = 9 \text{ mm}$$

5.



$$a^2 + 8.4^2 = 10.32^2$$
$$a = \sqrt{106.5024 - 70.56}$$
$$a = 6 \text{ ft}$$

6.



$$7.8^2 + b^2 = 10.75^2$$
$$b = \sqrt{115.5625 - 60.84}$$
$$b = 7.4 \text{ m}$$

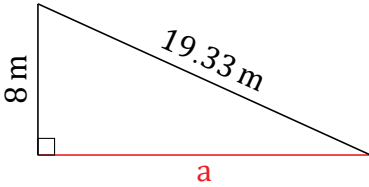
# Pythagorean Theorem (F)

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

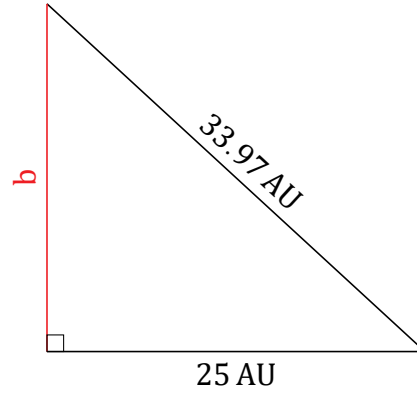
Date: \_\_\_\_\_

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

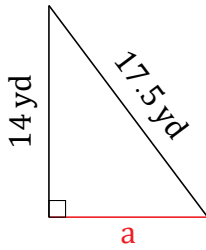
1.



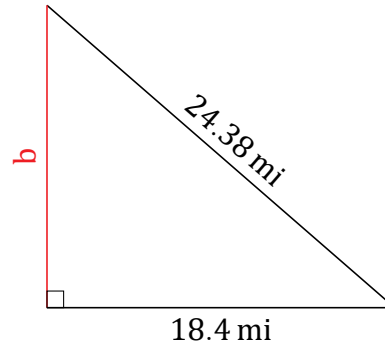
2.



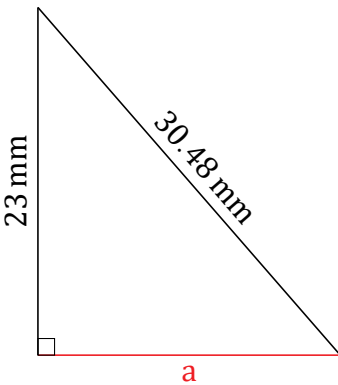
3.



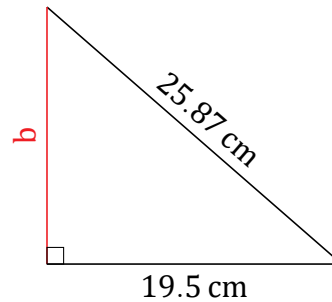
4.



5.



6.

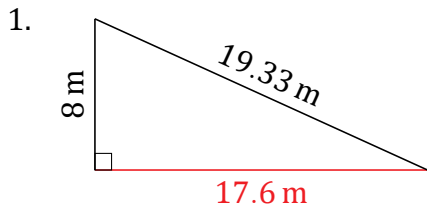


# Pythagorean Theorem (F) Answers

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

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

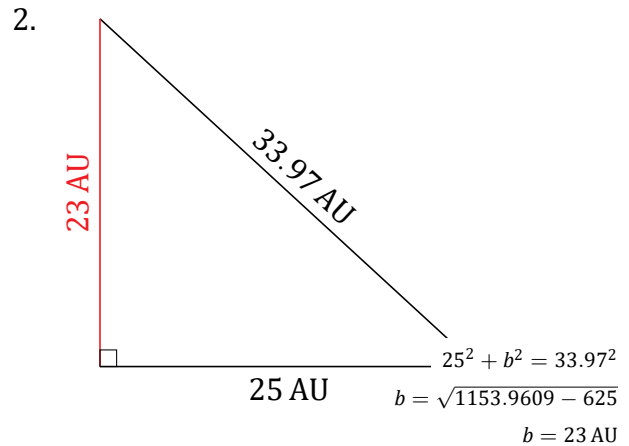
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .



$$a^2 + 8^2 = 19.33^2$$

$$a = \sqrt{373.6489 - 64}$$

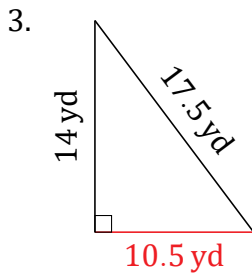
$$a = 17.6 \text{ m}$$



$$25^2 + b^2 = 33.97^2$$

$$b = \sqrt{1153.9609 - 625}$$

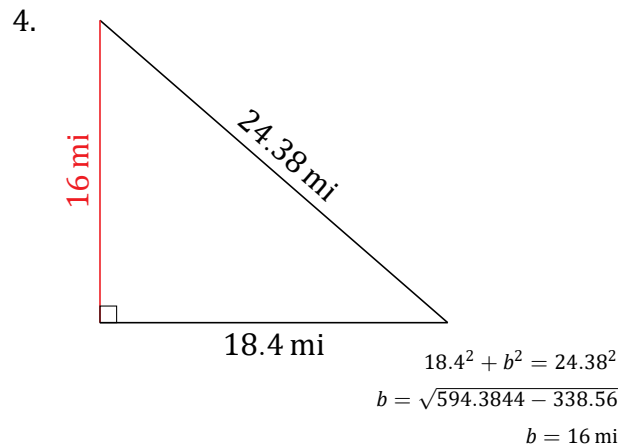
$$b = 23 \text{ AU}$$



$$a^2 + 14^2 = 17.5^2$$

$$a = \sqrt{306.25 - 196}$$

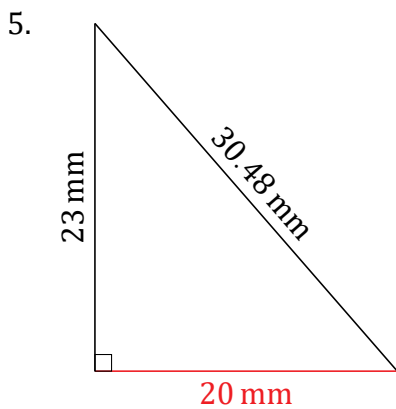
$$a = 10.5 \text{ yd}$$



$$18.4^2 + b^2 = 24.38^2$$

$$b = \sqrt{594.3844 - 338.56}$$

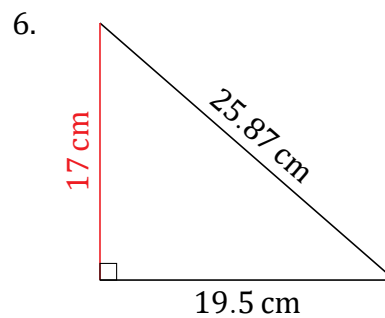
$$b = 16 \text{ mi}$$



$$a^2 + 23^2 = 30.48^2$$

$$a = \sqrt{929.0304 - 529}$$

$$a = 20 \text{ mm}$$



$$19.5^2 + b^2 = 25.87^2$$

$$b = \sqrt{669.2569 - 380.25}$$

$$b = 17 \text{ cm}$$

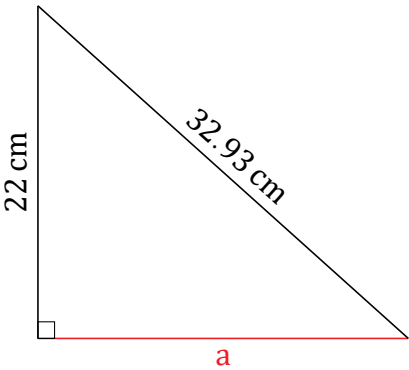
# Pythagorean Theorem (G)

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

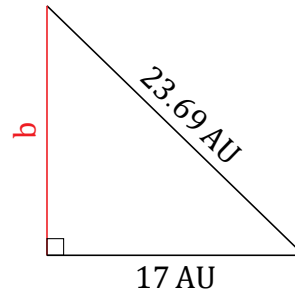
Date: \_\_\_\_\_

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

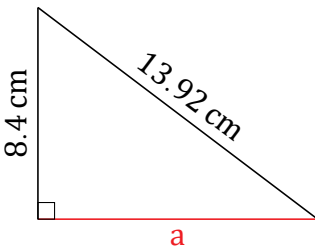
1.



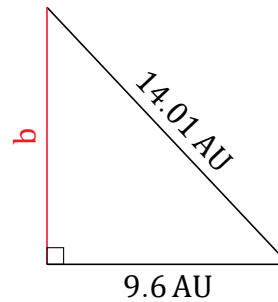
2.



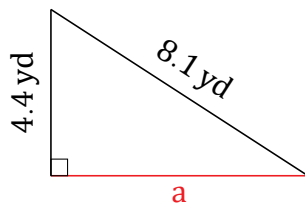
3.



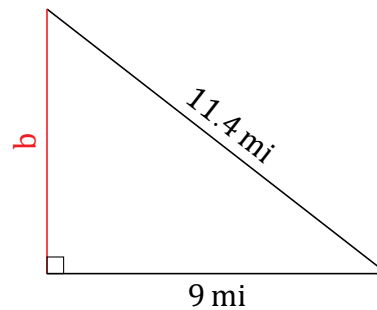
4.



5.



6.



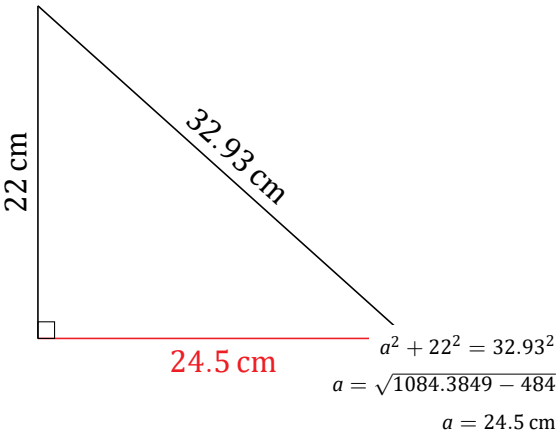
# Pythagorean Theorem (G) Answers

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

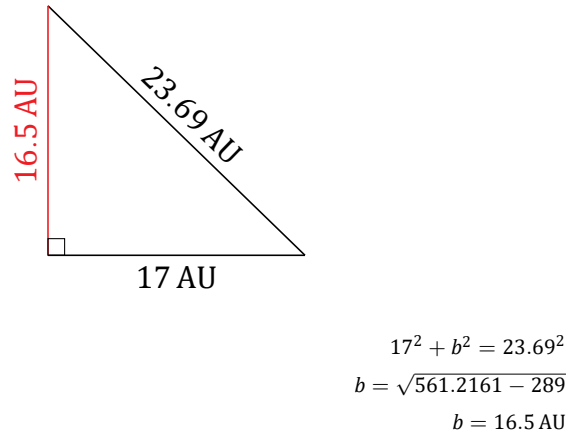
Date: \_\_\_\_\_

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

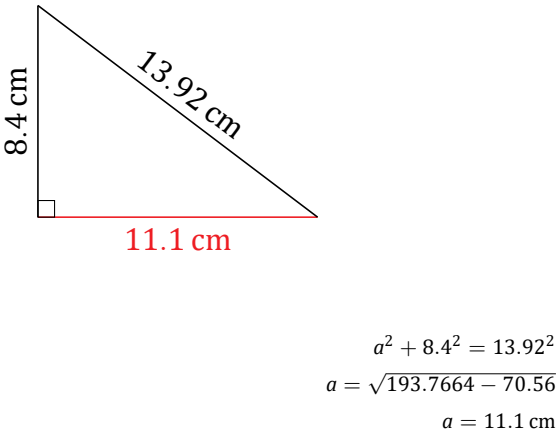
1.



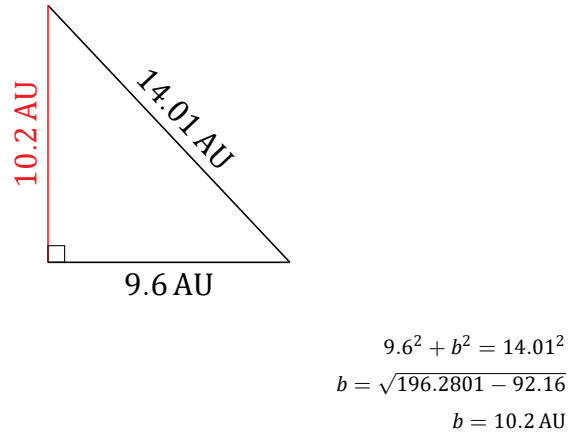
2.



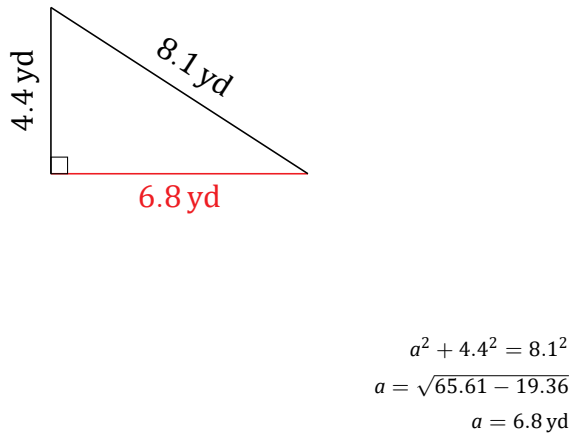
3.



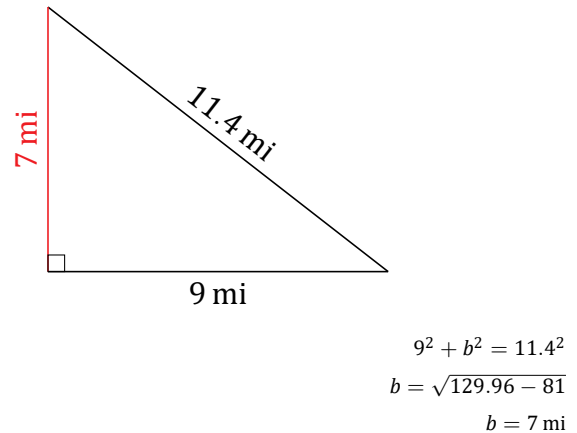
4.



5.



6.



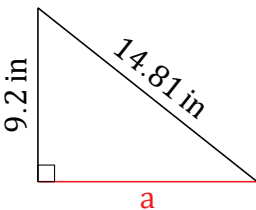
# Pythagorean Theorem (H)

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

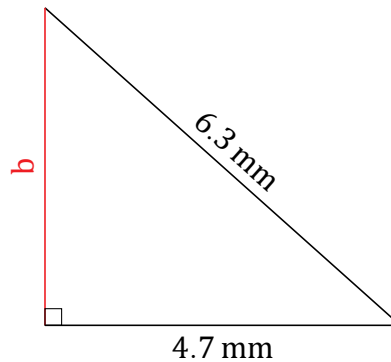
Date: \_\_\_\_\_

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

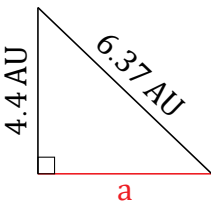
1.



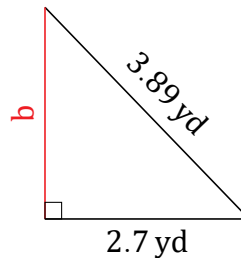
2.



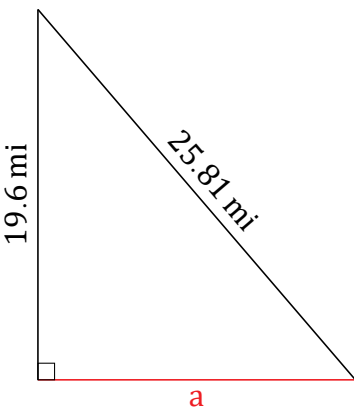
3.



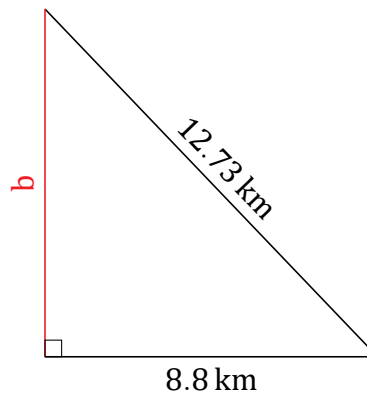
4.



5.



6.



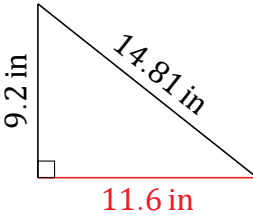
# Pythagorean Theorem (H) Answers

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

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

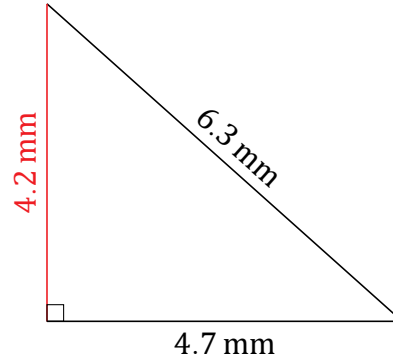
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



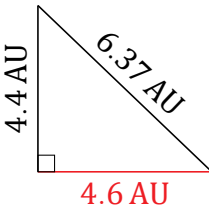
$$\begin{aligned}a^2 + 9.2^2 &= 14.81^2 \\a &= \sqrt{219.3361 - 84.64} \\a &= 11.6 \text{ in}\end{aligned}$$

2.



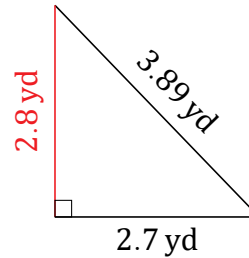
$$\begin{aligned}4.7^2 + b^2 &= 6.3^2 \\b &= \sqrt{39.69 - 22.09} \\b &= 4.2 \text{ mm}\end{aligned}$$

3.



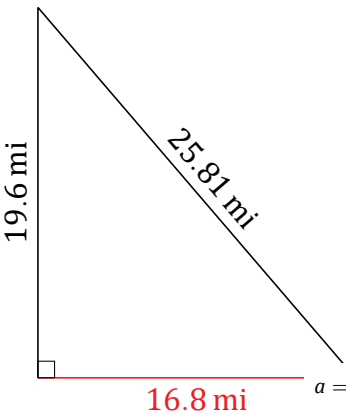
$$\begin{aligned}a^2 + 4.4^2 &= 6.37^2 \\a &= \sqrt{40.5769 - 19.36} \\a &= 4.6 \text{ AU}\end{aligned}$$

4.



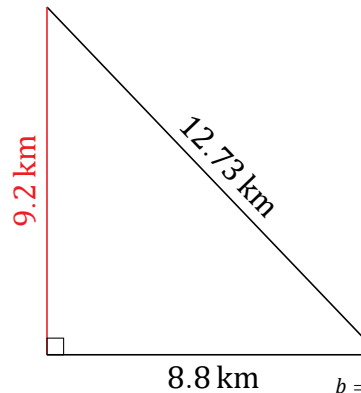
$$\begin{aligned}2.7^2 + b^2 &= 3.89^2 \\b &= \sqrt{15.1321 - 7.29} \\b &= 2.8 \text{ yd}\end{aligned}$$

5.



$$\begin{aligned}a^2 + 19.6^2 &= 25.81^2 \\a &= \sqrt{666.1561 - 384.16} \\a &= 16.8 \text{ mi}\end{aligned}$$

6.



$$\begin{aligned}8.8^2 + b^2 &= 12.73^2 \\b &= \sqrt{162.0529 - 77.44} \\b &= 9.2 \text{ km}\end{aligned}$$

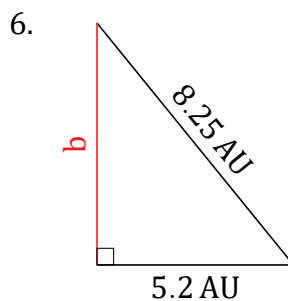
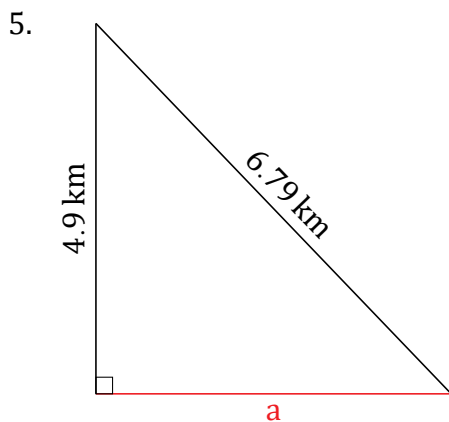
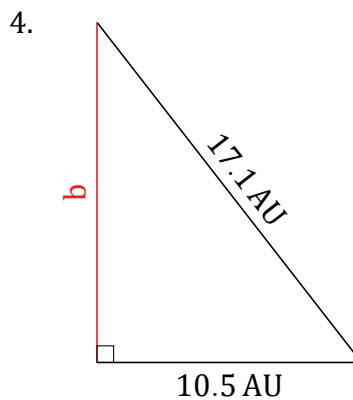
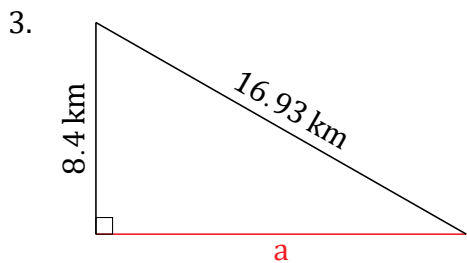
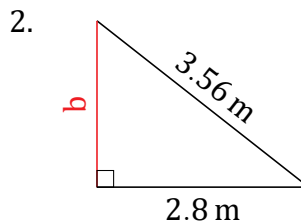
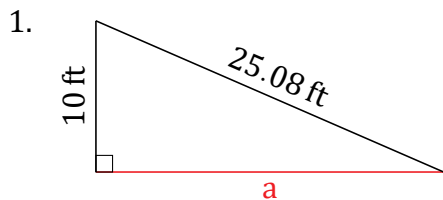


# Pythagorean Theorem (I)

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

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

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

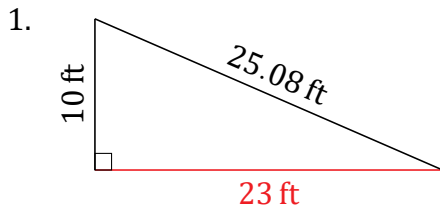


# Pythagorean Theorem (I) Answers

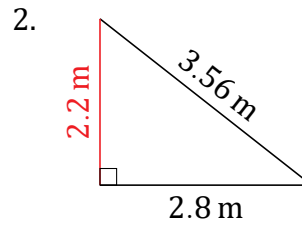
Name: \_\_\_\_\_

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

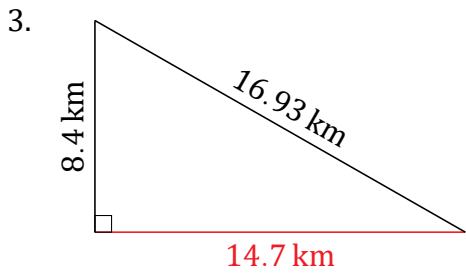
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .



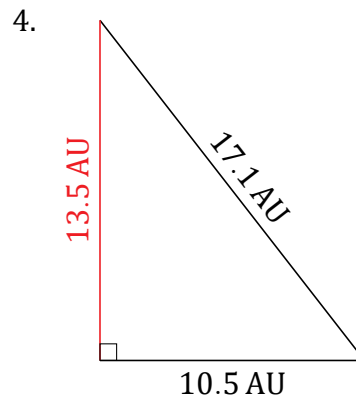
$$a^2 + 10^2 = 25.08^2$$
$$a = \sqrt{629.0064 - 100}$$
$$a = 23 \text{ ft}$$



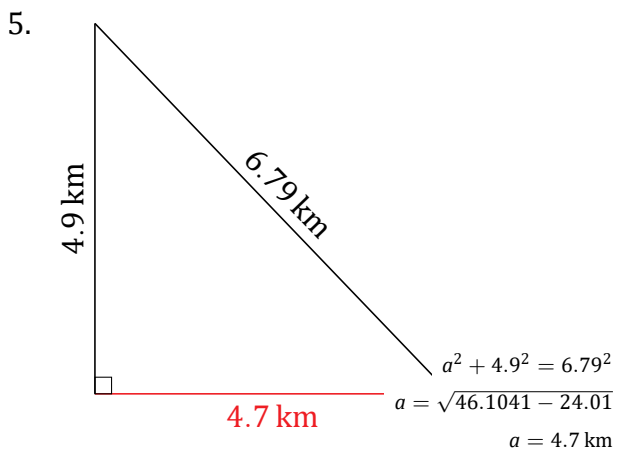
$$2.8^2 + b^2 = 3.56^2$$
$$b = \sqrt{12.6736 - 7.84}$$
$$b = 2.2 \text{ m}$$



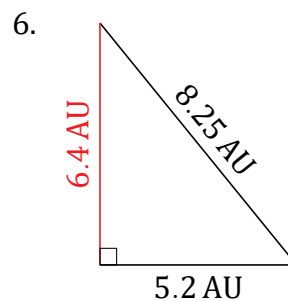
$$a^2 + 8.4^2 = 16.93^2$$
$$a = \sqrt{286.6249 - 70.56}$$
$$a = 14.7 \text{ km}$$



$$10.5^2 + b^2 = 17.1^2$$
$$b = \sqrt{292.41 - 110.25}$$
$$b = 13.5 \text{ AU}$$



$$a^2 + 4.9^2 = 6.79^2$$
$$a = \sqrt{46.1041 - 24.01}$$
$$a = 4.7 \text{ km}$$



$$5.2^2 + b^2 = 8.25^2$$
$$b = \sqrt{68.0625 - 27.04}$$
$$b = 6.4 \text{ AU}$$

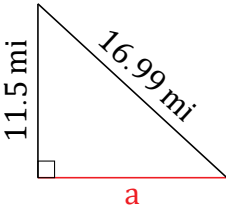
# Pythagorean Theorem (J)

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

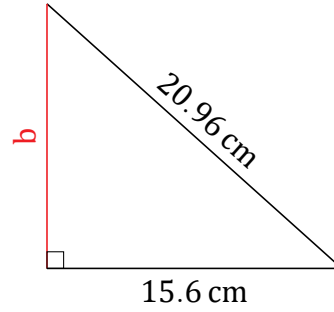
Date: \_\_\_\_\_

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

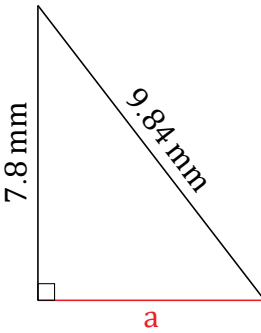
1.



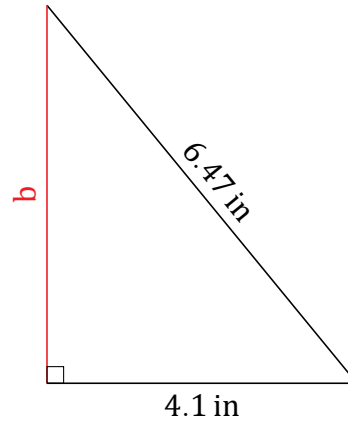
2.



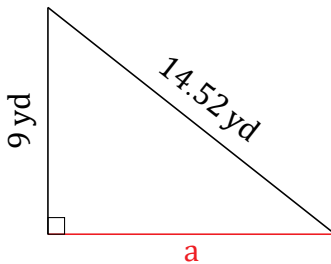
3.



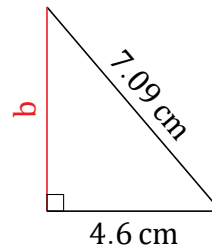
4.



5.



6.



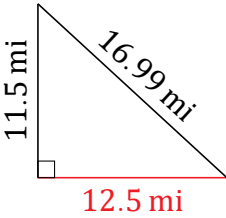
# Pythagorean Theorem (J) Answers

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

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

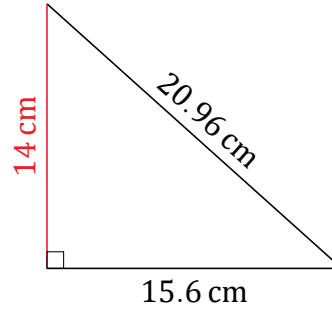
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



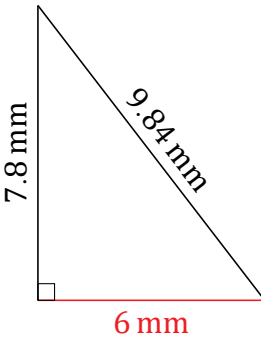
$$\begin{aligned}a^2 + 11.5^2 &= 16.99^2 \\a &= \sqrt{288.6601 - 132.25} \\a &= 12.5 \text{ mi}\end{aligned}$$

2.



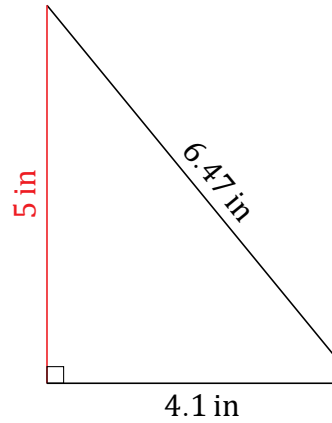
$$\begin{aligned}15.6^2 + b^2 &= 20.96^2 \\b &= \sqrt{439.3216 - 243.36} \\b &= 14 \text{ cm}\end{aligned}$$

3.



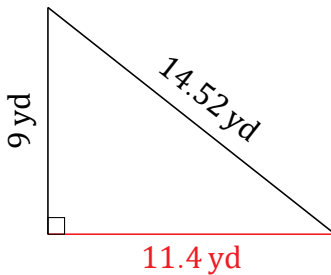
$$\begin{aligned}a^2 + 7.8^2 &= 9.84^2 \\a &= \sqrt{96.8256 - 60.84} \\a &= 6 \text{ mm}\end{aligned}$$

4.



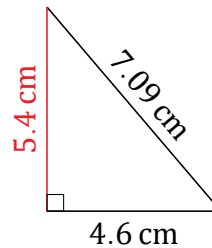
$$\begin{aligned}4.1^2 + b^2 &= 6.47^2 \\b &= \sqrt{41.8609 - 16.81} \\b &= 5 \text{ in}\end{aligned}$$

5.



$$\begin{aligned}a^2 + 9^2 &= 14.52^2 \\a &= \sqrt{210.8304 - 81} \\a &= 11.4 \text{ yd}\end{aligned}$$

6.



$$\begin{aligned}4.6^2 + b^2 &= 7.09^2 \\b &= \sqrt{50.2681 - 21.16} \\b &= 5.4 \text{ cm}\end{aligned}$$