

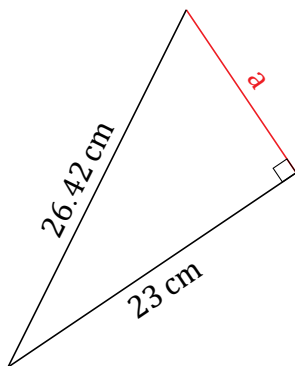
Pythagorean Theorem (A)

Name: _____

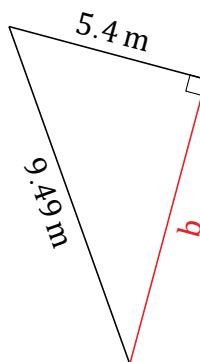
Date: _____

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

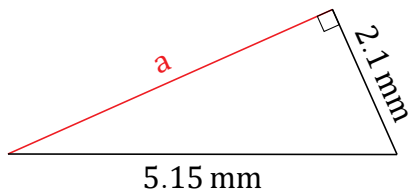
1.



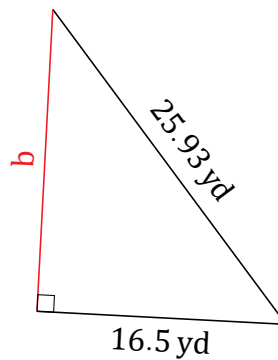
2.



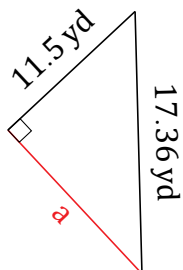
3.



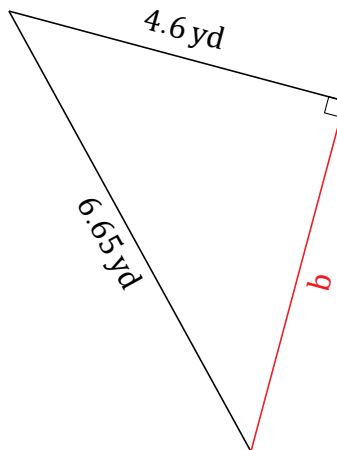
4.



5.



6.



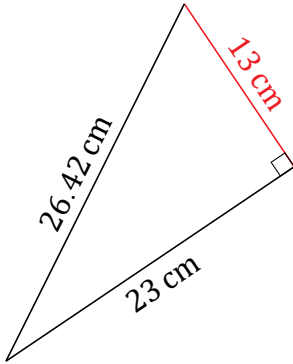
Pythagorean Theorem (A) Answers

Name: _____

Date: _____

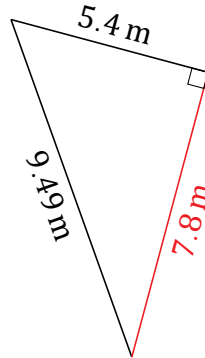
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



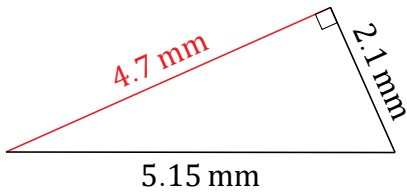
$$a^2 + 23^2 = 26.42^2$$
$$a = \sqrt{698.0164 - 529}$$
$$a = 13 \text{ cm}$$

2.



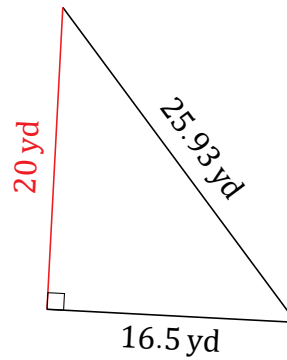
$$5.4^2 + b^2 = 9.49^2$$
$$b = \sqrt{90.0601 - 29.16}$$
$$b = 7.8 \text{ m}$$

3.



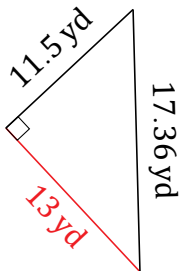
$$a^2 + 2.1^2 = 5.15^2$$
$$a = \sqrt{26.5225 - 4.41}$$
$$a = 4.7 \text{ mm}$$

4.



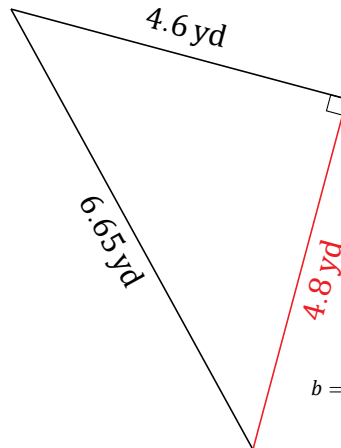
$$16.5^2 + b^2 = 25.93^2$$
$$b = \sqrt{672.3649 - 272.25}$$
$$b = 20 \text{ yd}$$

5.



$$a^2 + 11.5^2 = 17.36^2$$
$$a = \sqrt{301.3696 - 132.25}$$
$$a = 13 \text{ yd}$$

6.



$$4.6^2 + b^2 = 6.65^2$$
$$b = \sqrt{44.2225 - 21.16}$$
$$b = 4.8 \text{ yd}$$

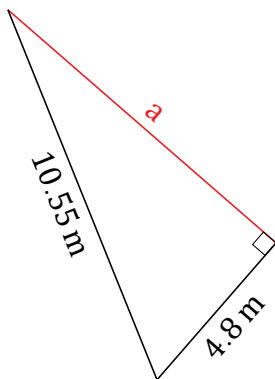
Pythagorean Theorem (B)

Name: _____

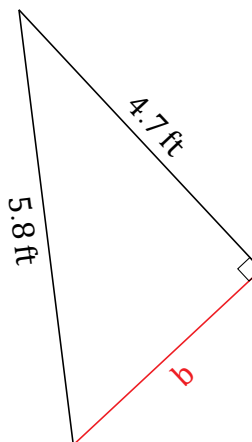
Date: _____

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

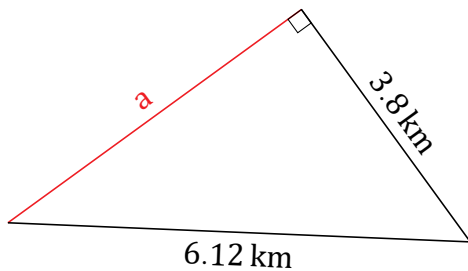
1.



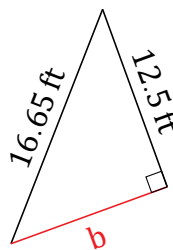
2.



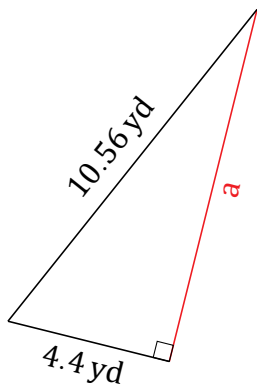
3.



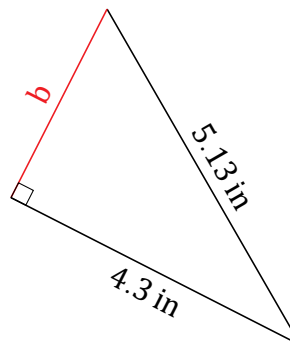
4.



5.



6.



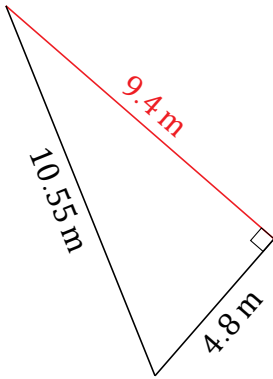
Pythagorean Theorem (B) Answers

Name: _____

Date: _____

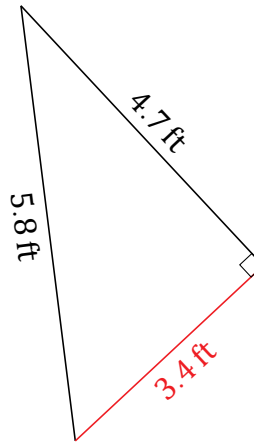
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



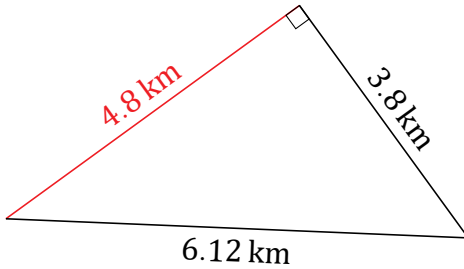
$$a^2 + 4.8^2 = 10.55^2$$
$$a = \sqrt{111.3025 - 23.04}$$
$$a = 9.4 \text{ m}$$

2.



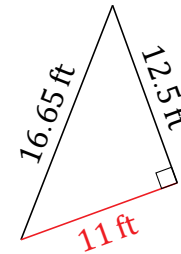
$$4.7^2 + b^2 = 5.8^2$$
$$b = \sqrt{33.64 - 22.09}$$
$$b = 3.4 \text{ ft}$$

3.



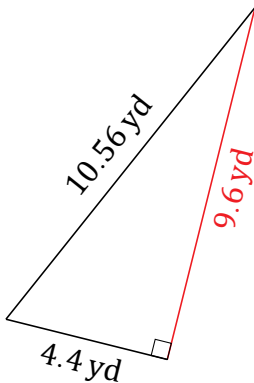
$$a^2 + 3.8^2 = 6.12^2$$
$$a = \sqrt{37.4544 - 14.44}$$
$$a = 4.8 \text{ km}$$

4.



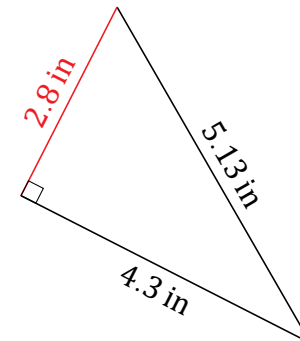
$$12.5^2 + b^2 = 16.65^2$$
$$b = \sqrt{277.2225 - 156.25}$$
$$b = 11 \text{ ft}$$

5.



$$a^2 + 4.4^2 = 10.56^2$$
$$a = \sqrt{111.5136 - 19.36}$$
$$a = 9.6 \text{ yd}$$

6.



$$4.3^2 + b^2 = 5.13^2$$
$$b = \sqrt{26.3169 - 18.49}$$
$$b = 2.8 \text{ in}$$

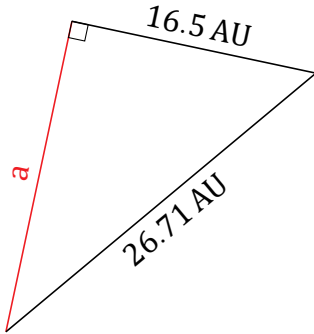
Pythagorean Theorem (C)

Name: _____

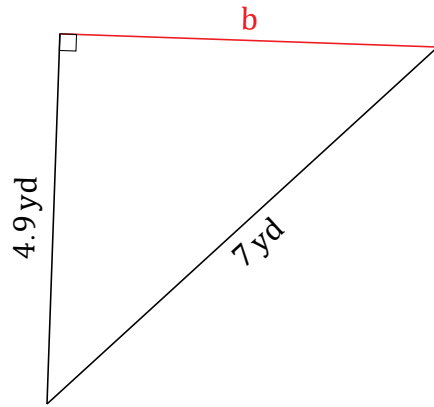
Date: _____

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

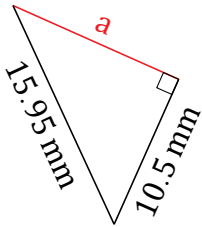
1.



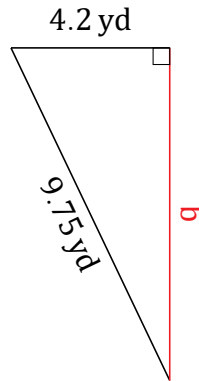
2.



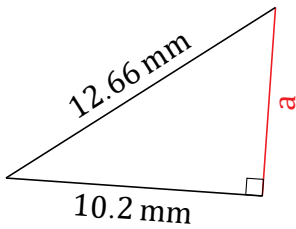
3.



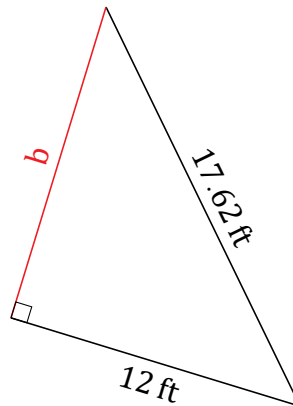
4.



5.



6.



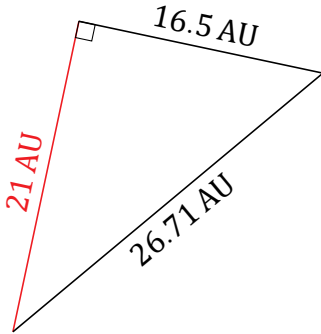
Pythagorean Theorem (C) Answers

Name: _____

Date: _____

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

1.

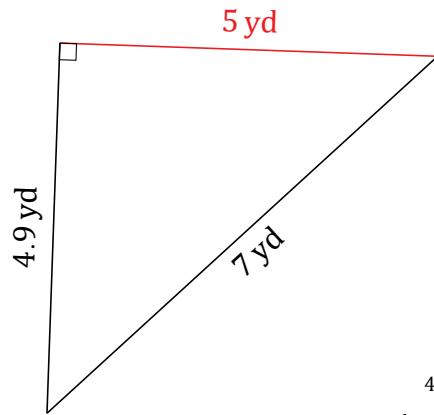


$$a^2 + 16.5^2 = 26.71^2$$

$$a = \sqrt{713.4241 - 272.25}$$

$$a = 21 \text{ AU}$$

2.

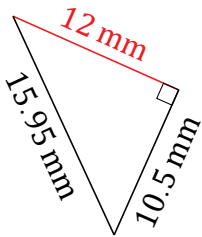


$$4.9^2 + b^2 = 7^2$$

$$b = \sqrt{49 - 24.01}$$

$$b = 5 \text{ yd}$$

3.

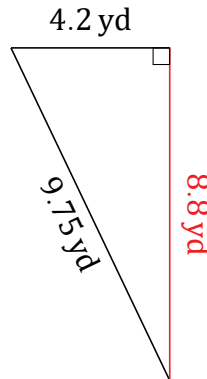


$$a^2 + 10.5^2 = 15.95^2$$

$$a = \sqrt{254.4025 - 110.25}$$

$$a = 12 \text{ mm}$$

4.

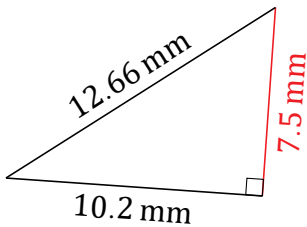


$$4.2^2 + b^2 = 9.75^2$$

$$b = \sqrt{95.0625 - 17.64}$$

$$b = 8.8 \text{ yd}$$

5.

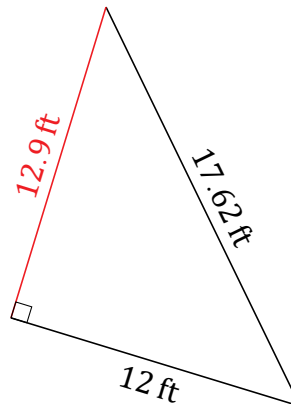


$$a^2 + 10.2^2 = 12.66^2$$

$$a = \sqrt{160.2756 - 104.04}$$

$$a = 7.5 \text{ mm}$$

6.



$$12^2 + b^2 = 17.62^2$$

$$b = \sqrt{310.4644 - 144}$$

$$b = 12.9 \text{ ft}$$

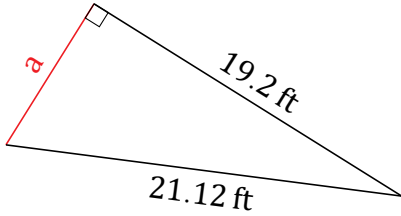
Pythagorean Theorem (D)

Name: _____

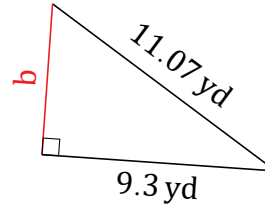
Date: _____

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

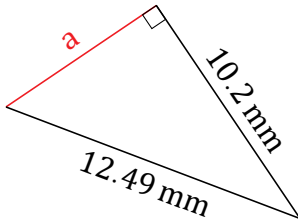
1.



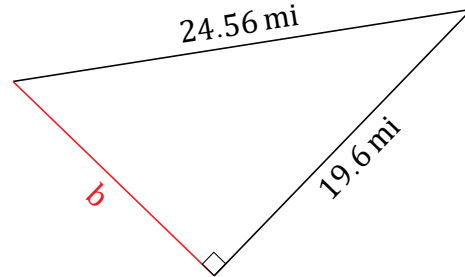
2.



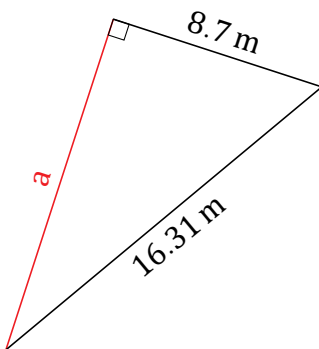
3.



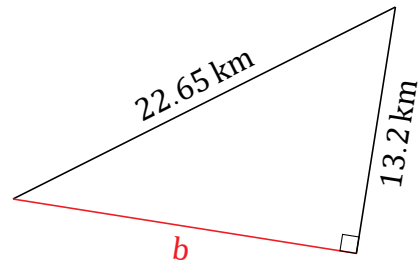
4.



5.



6.



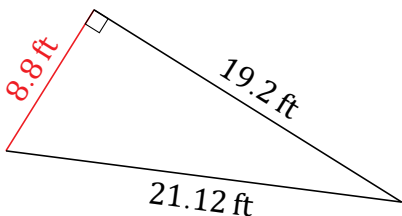
Pythagorean Theorem (D) Answers

Name: _____

Date: _____

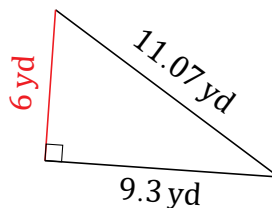
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



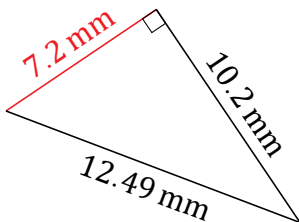
$$a^2 + 19.2^2 = 21.12^2$$
$$a = \sqrt{446.0544 - 368.64}$$
$$a = 8.8 \text{ ft}$$

2.



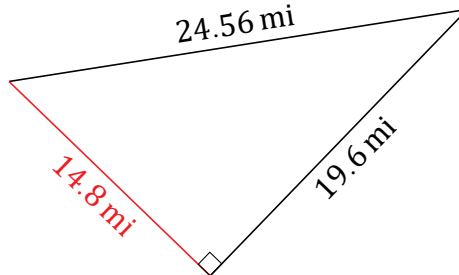
$$9.3^2 + b^2 = 11.07^2$$
$$b = \sqrt{122.5449 - 86.49}$$
$$b = 6 \text{ yd}$$

3.



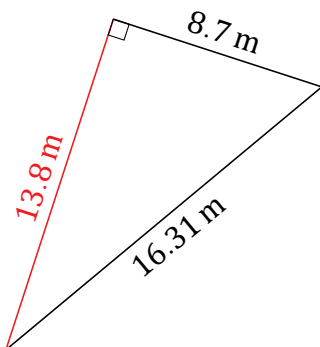
$$a^2 + 10.2^2 = 12.49^2$$
$$a = \sqrt{156.0001 - 104.04}$$
$$a = 7.2 \text{ mm}$$

4.



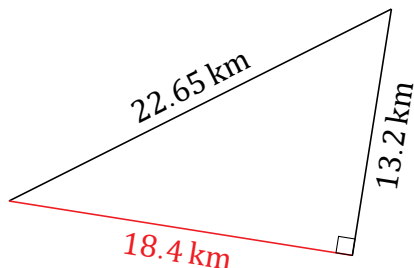
$$19.6^2 + b^2 = 24.56^2$$
$$b = \sqrt{603.1936 - 384.16}$$
$$b = 14.8 \text{ mi}$$

5.



$$a^2 + 8.7^2 = 16.31^2$$
$$a = \sqrt{266.0161 - 75.69}$$
$$a = 13.8 \text{ m}$$

6.



$$13.2^2 + b^2 = 22.65^2$$
$$b = \sqrt{513.0225 - 174.24}$$
$$b = 18.4 \text{ km}$$

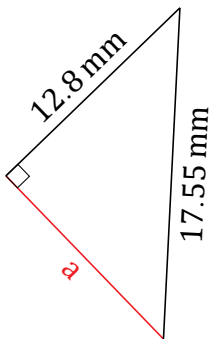
Pythagorean Theorem (E)

Name: _____

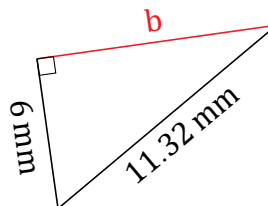
Date: _____

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

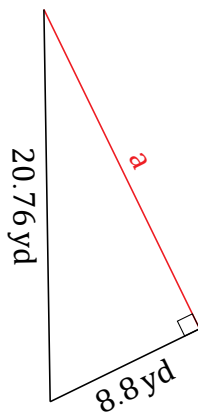
1.



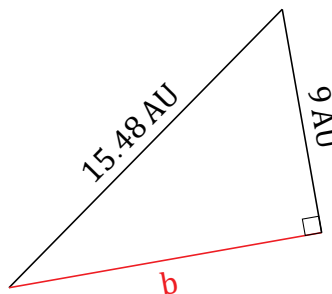
2.



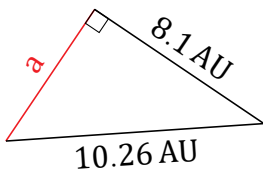
3.



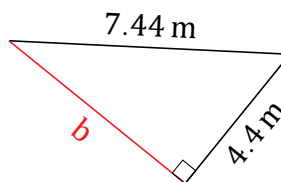
4.



5.



6.



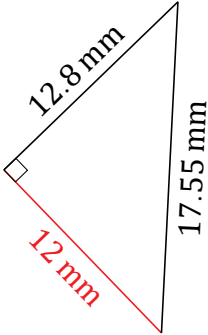
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

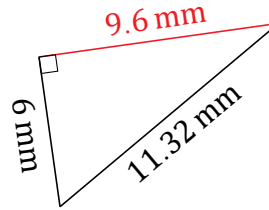
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



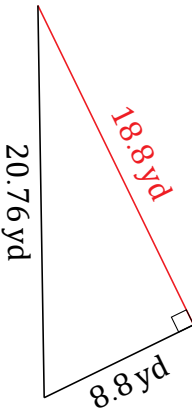
$$a^2 + 12.8^2 = 17.55^2$$
$$a = \sqrt{308.0025 - 163.84}$$
$$a = 12 \text{ mm}$$

2.



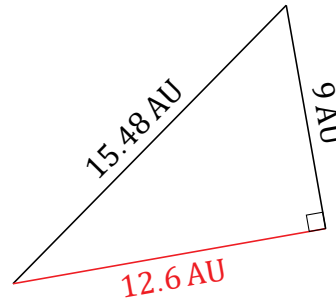
$$6^2 + b^2 = 11.32^2$$
$$b = \sqrt{128.1424 - 36}$$
$$b = 9.6 \text{ mm}$$

3.



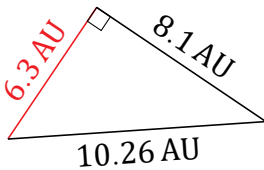
$$a^2 + 8.8^2 = 20.76^2$$
$$a = \sqrt{430.9776 - 77.44}$$
$$a = 18.8 \text{ yd}$$

4.



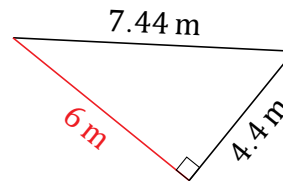
$$9^2 + b^2 = 15.48^2$$
$$b = \sqrt{239.6304 - 81}$$
$$b = 12.6 \text{ AU}$$

5.



$$a^2 + 8.1^2 = 10.26^2$$
$$a = \sqrt{105.2676 - 65.61}$$
$$a = 6.3 \text{ AU}$$

6.



$$4.4^2 + b^2 = 7.44^2$$
$$b = \sqrt{55.3536 - 19.36}$$
$$b = 6 \text{ m}$$

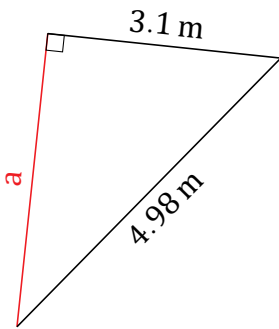
Pythagorean Theorem (F)

Name: _____

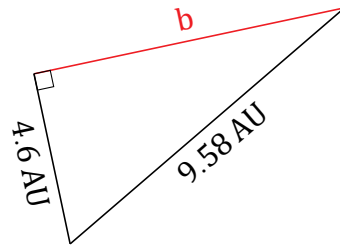
Date: _____

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

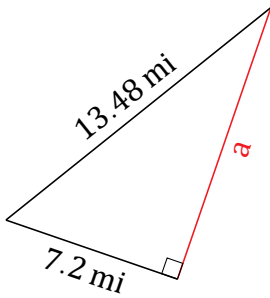
1.



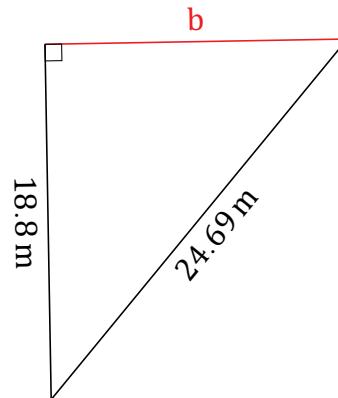
2.



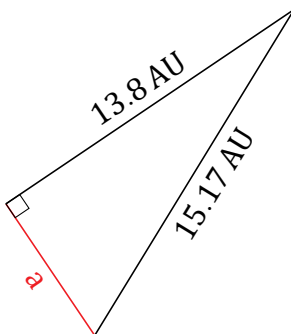
3.



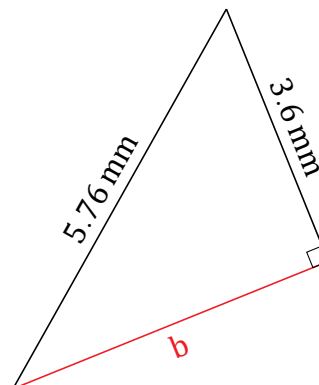
4.



5.



6.



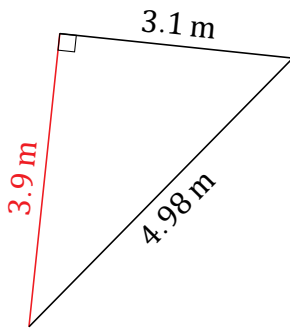
Pythagorean Theorem (F) Answers

Name: _____

Date: _____

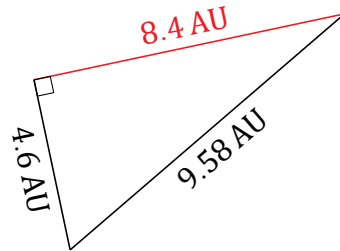
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



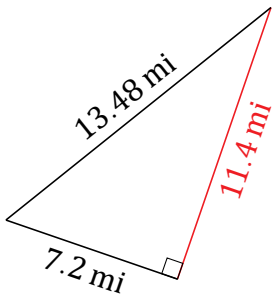
$$a^2 + 3.1^2 = 4.98^2$$
$$a = \sqrt{24.8004 - 9.61}$$
$$a = 3.9 \text{ m}$$

2.



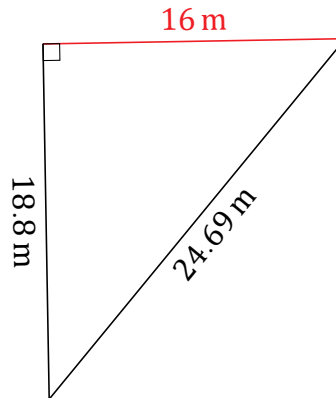
$$4.6^2 + b^2 = 9.58^2$$
$$b = \sqrt{91.7764 - 21.16}$$
$$b = 8.4 \text{ AU}$$

3.



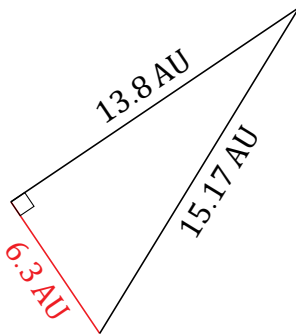
$$a^2 + 7.2^2 = 13.48^2$$
$$a = \sqrt{181.7104 - 51.84}$$
$$a = 11.4 \text{ mi}$$

4.



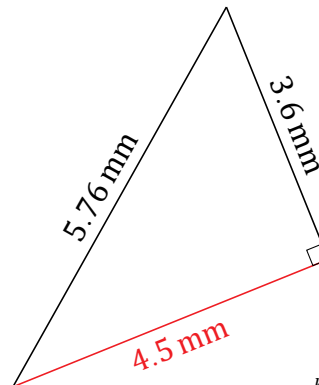
$$18.8^2 + b^2 = 24.69^2$$
$$b = \sqrt{609.5961 - 353.44}$$
$$b = 16 \text{ m}$$

5.



$$a^2 + 13.8^2 = 15.17^2$$
$$a = \sqrt{230.1289 - 190.44}$$
$$a = 6.3 \text{ AU}$$

6.



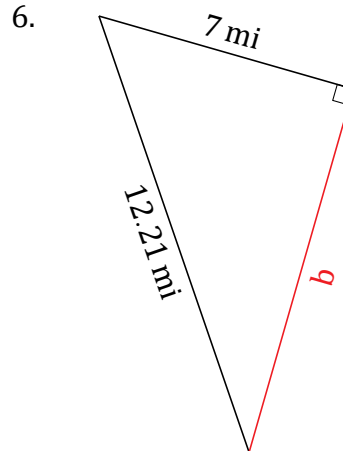
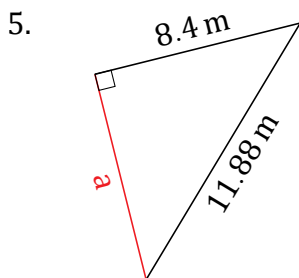
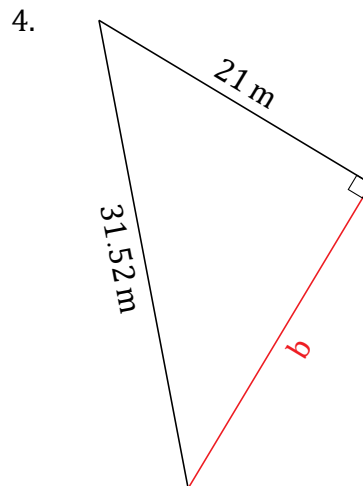
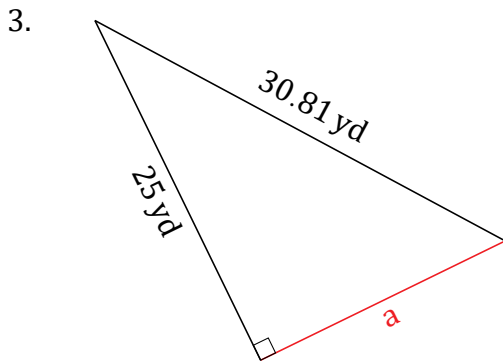
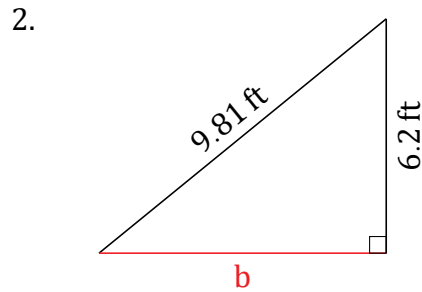
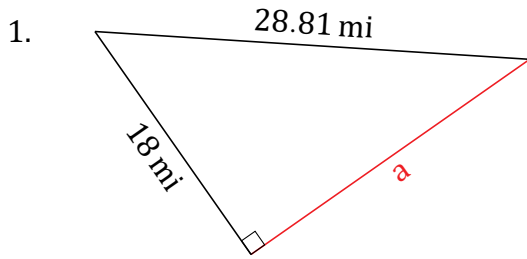
$$3.6^2 + b^2 = 5.76^2$$
$$b = \sqrt{33.1776 - 12.96}$$
$$b = 4.5 \text{ mm}$$

Pythagorean Theorem (G)

Name: _____

Date: _____

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



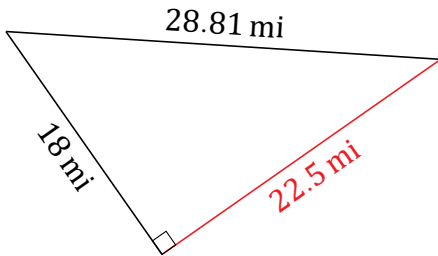
Pythagorean Theorem (G) Answers

Name: _____

Date: _____

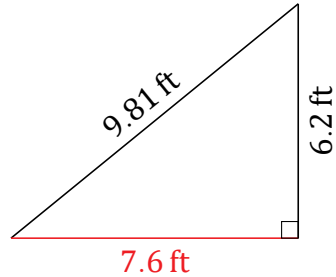
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



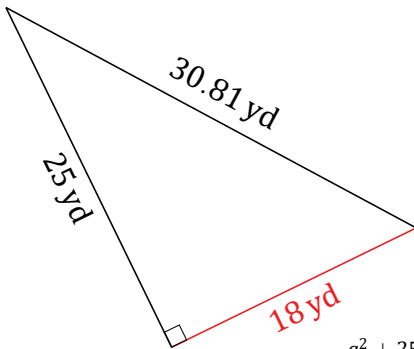
$$a^2 + 18^2 = 28.81^2$$
$$a = \sqrt{830.0161 - 324}$$
$$a = 22.5 \text{ mi}$$

2.



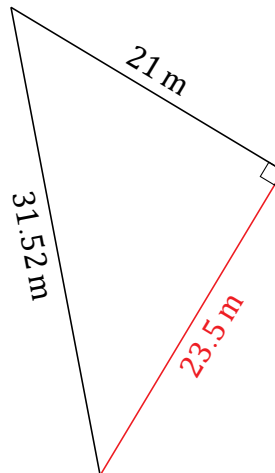
$$6.2^2 + b^2 = 9.81^2$$
$$b = \sqrt{96.2361 - 38.44}$$
$$b = 7.6 \text{ ft}$$

3.



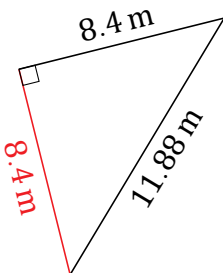
$$a^2 + 25^2 = 30.81^2$$
$$a = \sqrt{949.2561 - 625}$$
$$a = 18 \text{ yd}$$

4.



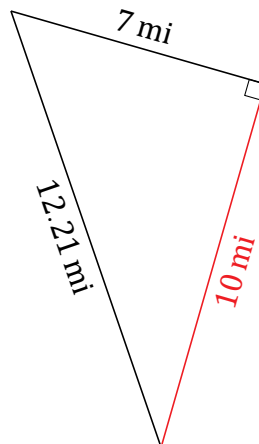
$$21^2 + b^2 = 31.52^2$$
$$b = \sqrt{993.5104 - 441}$$
$$b = 23.5 \text{ m}$$

5.



$$a^2 + 8.4^2 = 11.88^2$$
$$a = \sqrt{141.1344 - 70.56}$$
$$a = 8.4 \text{ m}$$

6.



$$7^2 + b^2 = 12.21^2$$
$$b = \sqrt{149.0841 - 49}$$
$$b = 10 \text{ mi}$$

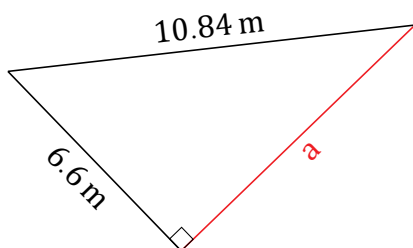
Pythagorean Theorem (H)

Name: _____

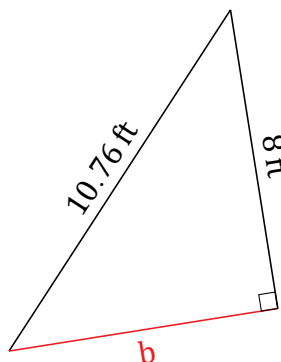
Date: _____

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

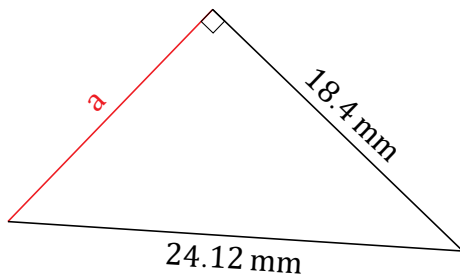
1.



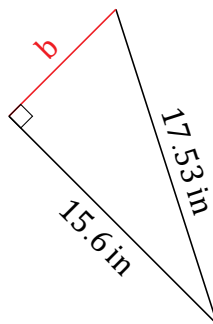
2.



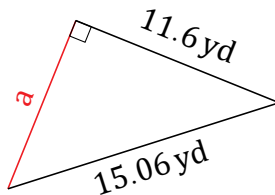
3.



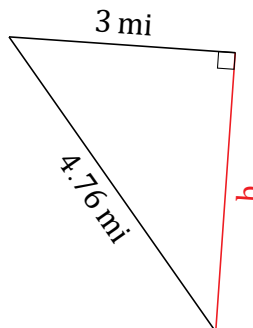
4.



5.



6.



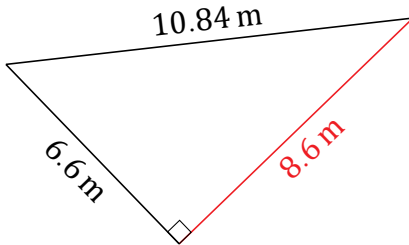
Pythagorean Theorem (H) Answers

Name: _____

Date: _____

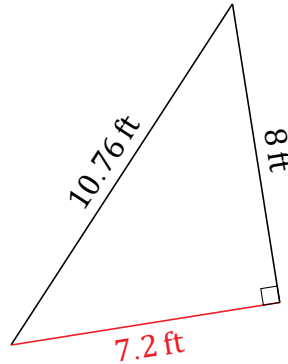
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



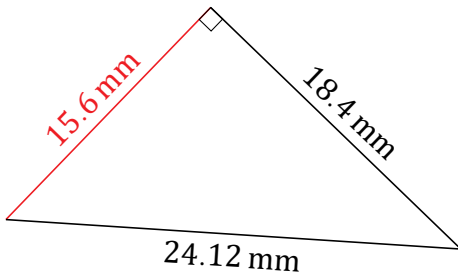
$$\begin{aligned}a^2 + 6.6^2 &= 10.84^2 \\a &= \sqrt{117.5056 - 43.56} \\a &= 8.6 \text{ m}\end{aligned}$$

2.



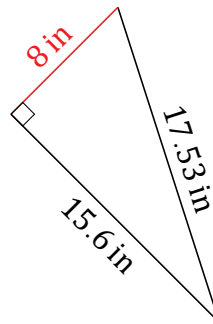
$$\begin{aligned}8^2 + b^2 &= 10.76^2 \\b &= \sqrt{115.7776 - 64} \\b &= 7.2 \text{ ft}\end{aligned}$$

3.



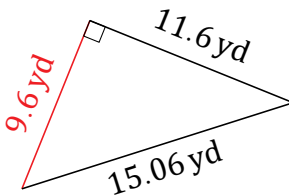
$$\begin{aligned}a^2 + 18.4^2 &= 24.12^2 \\a &= \sqrt{581.7744 - 338.56} \\a &= 15.6 \text{ mm}\end{aligned}$$

4.



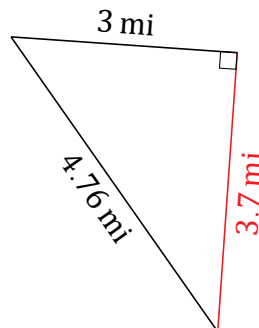
$$\begin{aligned}15.6^2 + b^2 &= 17.53^2 \\b &= \sqrt{307.3009 - 243.36} \\b &= 8 \text{ in}\end{aligned}$$

5.



$$\begin{aligned}a^2 + 11.6^2 &= 15.06^2 \\a &= \sqrt{226.8036 - 134.56} \\a &= 9.6 \text{ yd}\end{aligned}$$

6.



$$\begin{aligned}3^2 + b^2 &= 4.76^2 \\b &= \sqrt{22.6576 - 9} \\b &= 3.7 \text{ mi}\end{aligned}$$

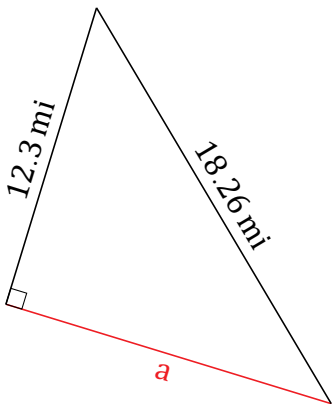
Pythagorean Theorem (I)

Name: _____

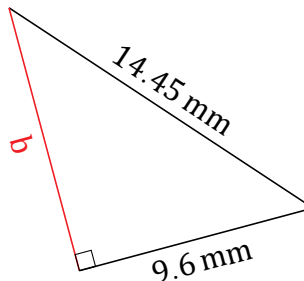
Date: _____

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

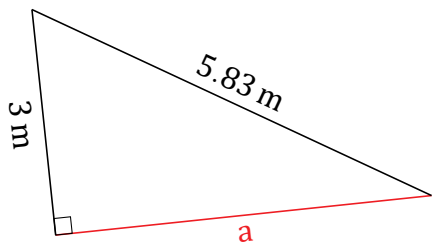
1.



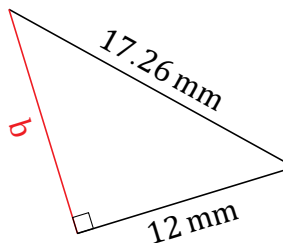
2.



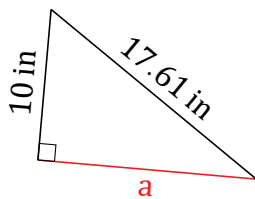
3.



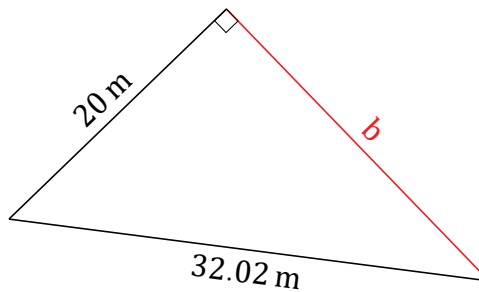
4.



5.



6.



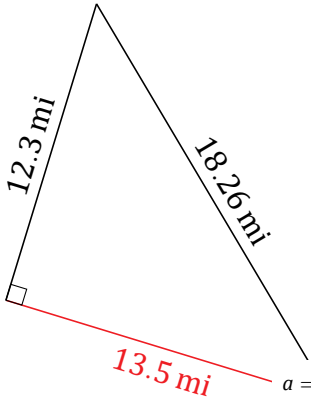
Pythagorean Theorem (I) Answers

Name: _____

Date: _____

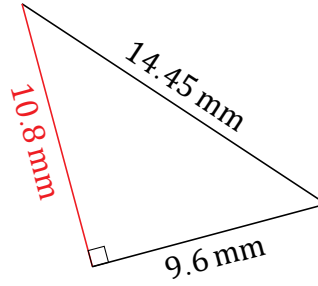
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



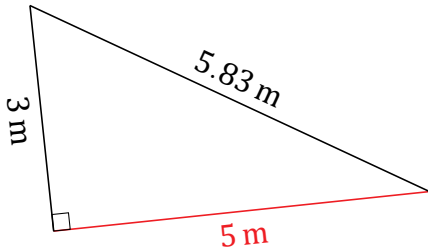
$$a^2 + 12.3^2 = 18.26^2$$
$$a = \sqrt{333.4276 - 151.29}$$
$$a = 13.5 \text{ mi}$$

2.



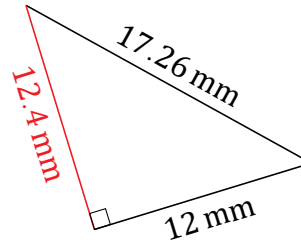
$$9.6^2 + b^2 = 14.45^2$$
$$b = \sqrt{208.8025 - 92.16}$$
$$b = 10.8 \text{ mm}$$

3.



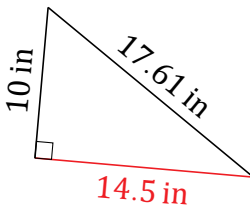
$$a^2 + 3^2 = 5.83^2$$
$$a = \sqrt{33.9889 - 9}$$
$$a = 5 \text{ m}$$

4.



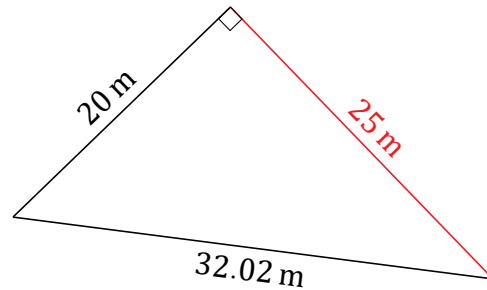
$$12^2 + b^2 = 17.26^2$$
$$b = \sqrt{297.9076 - 144}$$
$$b = 12.4 \text{ mm}$$

5.



$$a^2 + 10^2 = 17.61^2$$
$$a = \sqrt{310.1121 - 100}$$
$$a = 14.5 \text{ in}$$

6.



$$20^2 + b^2 = 32.02^2$$
$$b = \sqrt{1025.2804 - 400}$$
$$b = 25 \text{ m}$$

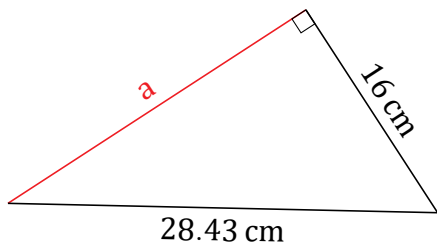
Pythagorean Theorem (J)

Name: _____

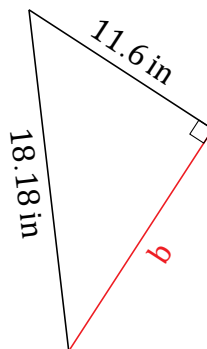
Date: _____

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

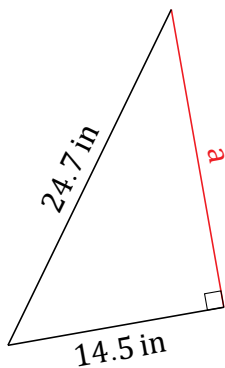
1.



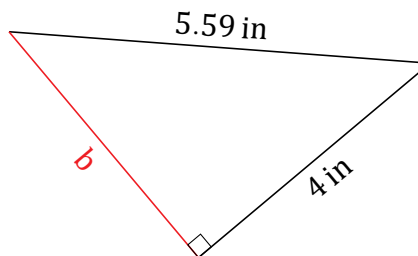
2.



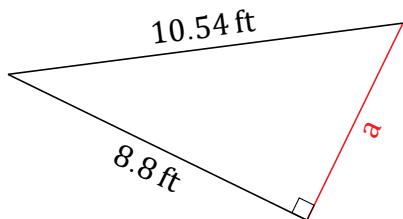
3.



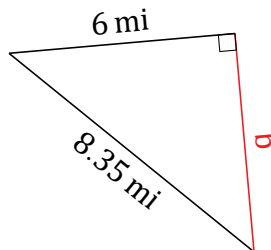
4.



5.



6.



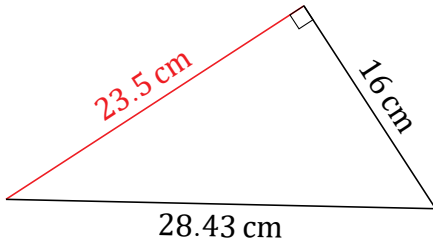
Pythagorean Theorem (J) Answers

Name: _____

Date: _____

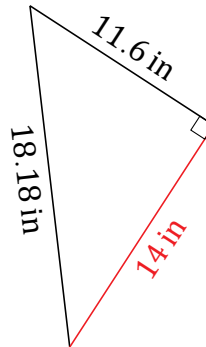
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



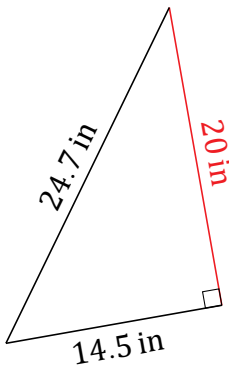
$$a^2 + 16^2 = 28.43^2$$
$$a = \sqrt{808.2649 - 256}$$
$$a = 23.5 \text{ cm}$$

2.



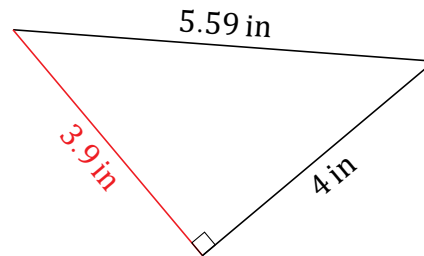
$$11.6^2 + b^2 = 18.18^2$$
$$b = \sqrt{330.5124 - 134.56}$$
$$b = 14 \text{ in}$$

3.



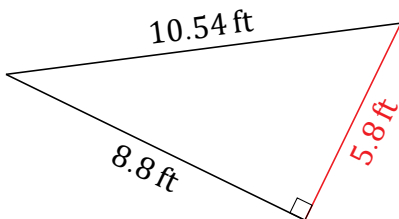
$$a^2 + 14.5^2 = 24.7^2$$
$$a = \sqrt{610.09 - 210.25}$$
$$a = 20 \text{ in}$$

4.



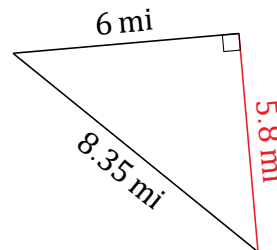
$$4^2 + b^2 = 5.59^2$$
$$b = \sqrt{31.2481 - 16}$$
$$b = 3.9 \text{ in}$$

5.



$$a^2 + 8.8^2 = 10.54^2$$
$$a = \sqrt{111.0916 - 77.44}$$
$$a = 5.8 \text{ ft}$$

6.



$$6^2 + b^2 = 8.35^2$$
$$b = \sqrt{69.7225 - 36}$$
$$b = 5.8 \text{ mi}$$