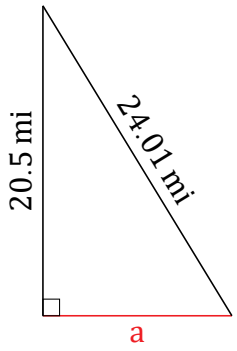
Pythagorean Theorem (A)

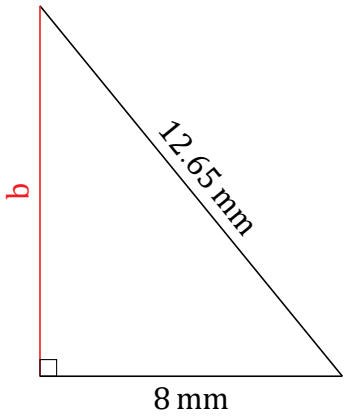
Name: _____ Date: _____

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

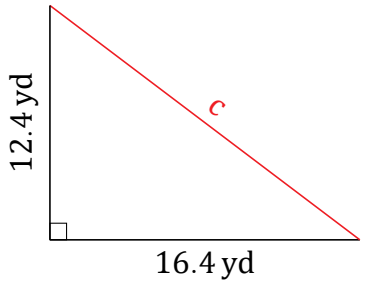
1.



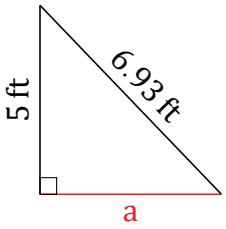
2.



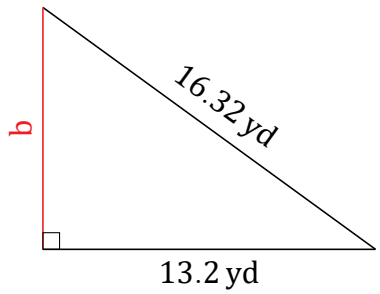
3.



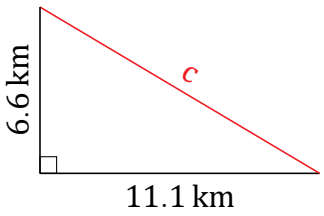
4.



5.



6.

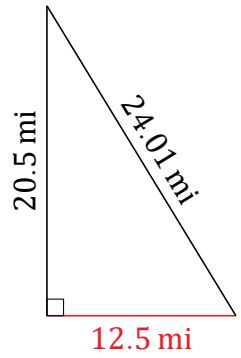


Pythagorean Theorem (A) Answers

Name: _____ Date: _____

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

1.

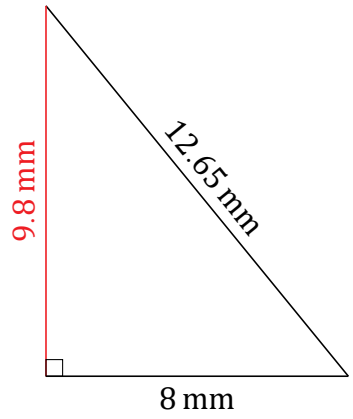


$a^2 + 20.5^2 = 24.01^2$

$a = \sqrt{576.4801 - 420.25}$

$a = 12.5$ mi

2.

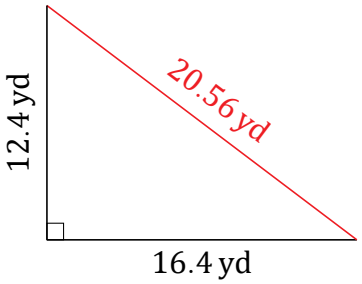


$8^2 + b^2 = 12.65^2$

$b = \sqrt{160.0225 - 64}$

$b = 9.8$ mm

3.

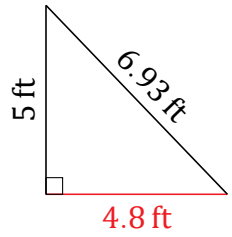


$16.4^2 + 12.4^2 = c^2$

$c = \sqrt{268.96 + 153.76}$

$c = 20.56$ yd

4.

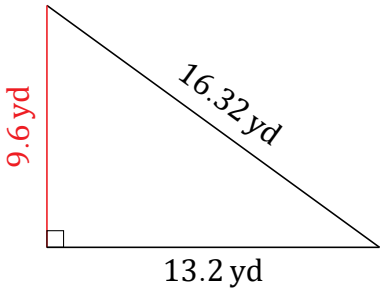


$a^2 + 5^2 = 6.93^2$

$a = \sqrt{48.0249 - 25}$

$a = 4.8$ ft

5.

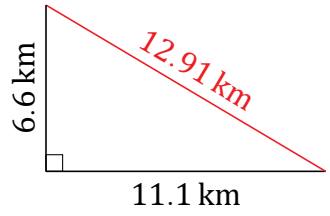


$13.2^2 + b^2 = 16.32^2$

$b = \sqrt{266.3424 - 174.24}$

$b = 9.6$ yd

6.



$11.1^2 + 6.6^2 = c^2$

$c = \sqrt{123.21 + 43.56}$

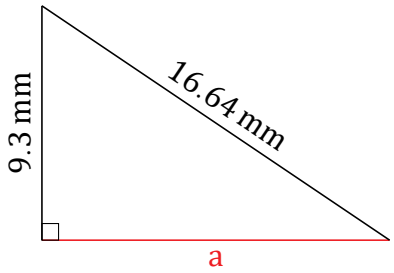
$c = 12.91$ km

Pythagorean Theorem (B)

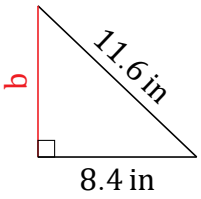
Name: _____ Date: _____

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

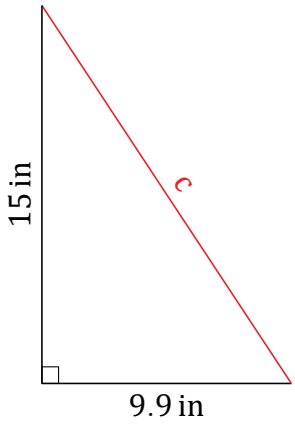
1.



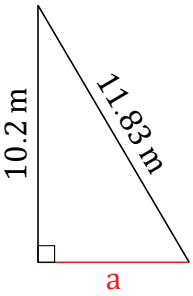
2.



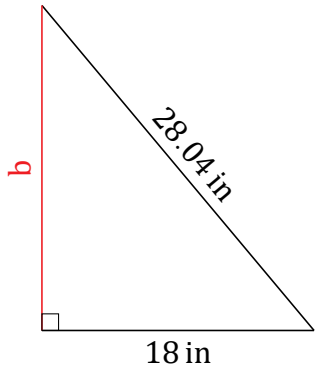
3.



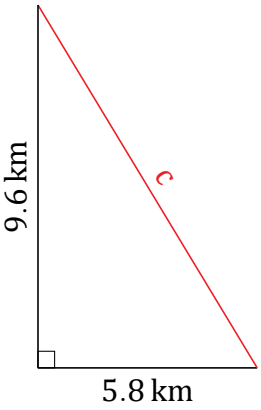
4.



5.



6.

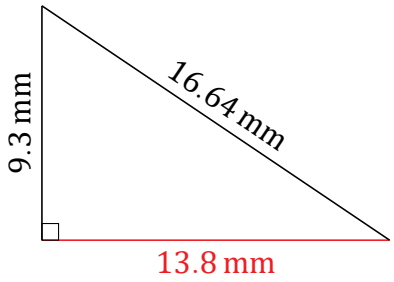


Pythagorean Theorem (B) Answers

Name: _____ Date: _____

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

1.

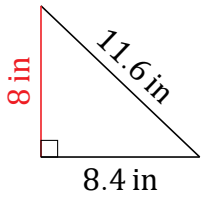


$a^2 + 9.3^2 = 16.64^2$

$a = \sqrt{276.8896 - 86.49}$

$a = 13.8\,\text{mm}$

2.

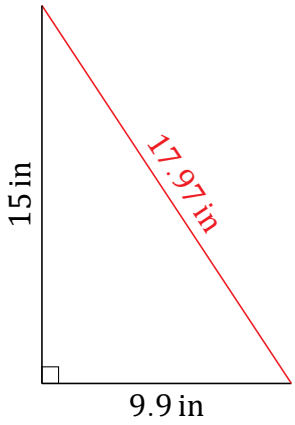


$8.4^2 + b^2 = 11.6^2$

$b = \sqrt{134.56 - 70.56}$

$b = 8\,\text{in}$

3.

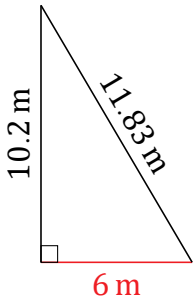


$9.9^2 + 15^2 = c^2$

$c = \sqrt{98.01 + 225}$

$c = 17.97\,\text{in}$

4.

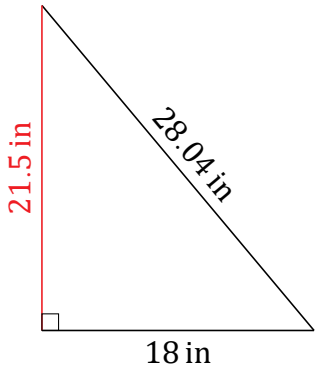


$a^2 + 10.2^2 = 11.83^2$

$a = \sqrt{139.9489 - 104.04}$

$a = 6\,\text{m}$

5.

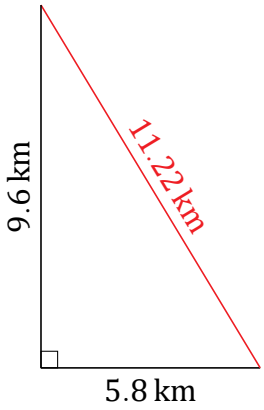


$18^2 + b^2 = 28.04^2$

$b = \sqrt{786.2416 - 324}$

$b = 21.5\,\text{in}$

6.



$5.8^2 + 9.6^2 = c^2$

$c = \sqrt{33.64 + 92.16}$

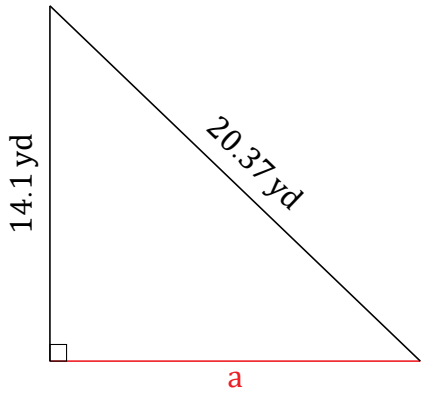
$c = 11.22\,\text{km}$

Pythagorean Theorem (C)

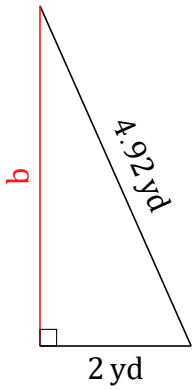
Name: _____ Date: _____

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

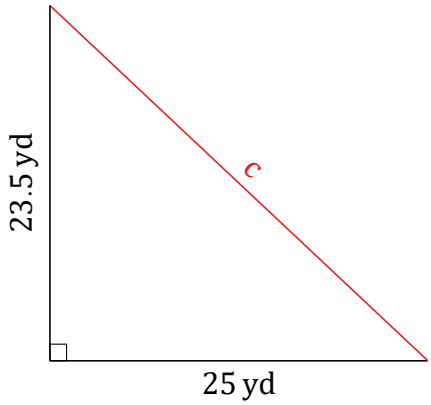
1.



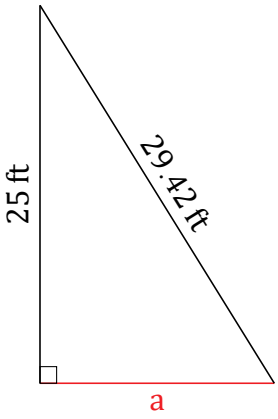
2.



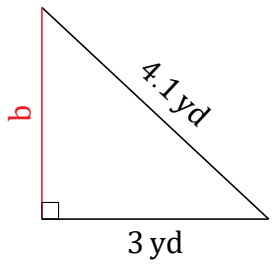
3.



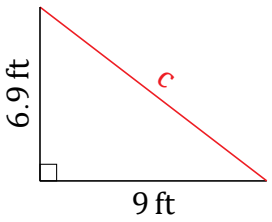
4.



5.



6.

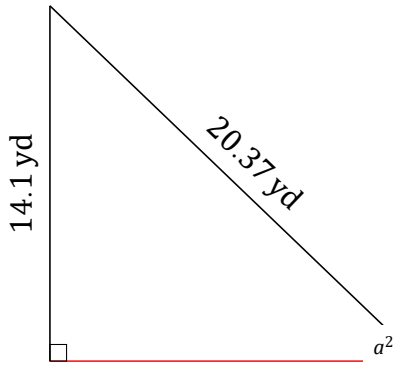


Pythagorean Theorem (C) Answers

Name: _____ Date: _____

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

1.

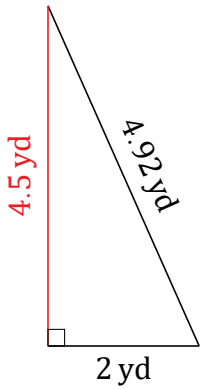


$a^2 + 14.1^2 = 20.37^2$

$a = \sqrt{414.9369 - 198.81}$

$a = 14.7$ yd

2.

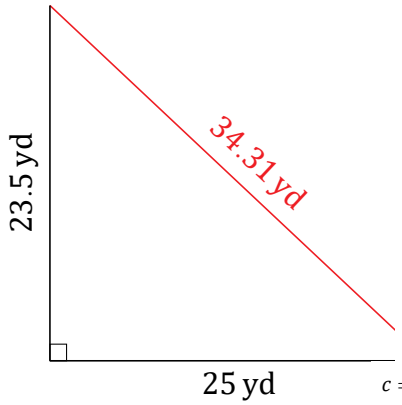


$2^2 + b^2 = 4.92^2$

$b = \sqrt{24.2064 - 4}$

$b = 4.5$ yd

3.

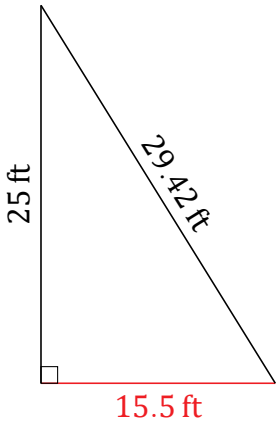


$25^2 + 23.5^2 = c^2$

$c = \sqrt{625 + 552.25}$

$c = 34.31$ yd

4.

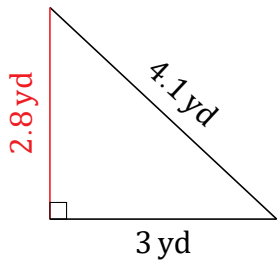


$a^2 + 25^2 = 29.42^2$

$a = \sqrt{865.5364 - 625}$

$a = 15.5$ ft

5.

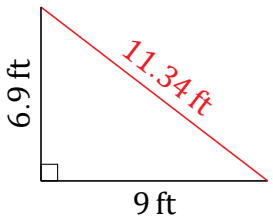


$3^2 + b^2 = 4.1^2$

$b = \sqrt{16.81 - 9}$

$b = 2.8$ yd

6.



$9^2 + 6.9^2 = c^2$

$c = \sqrt{81 + 47.61}$

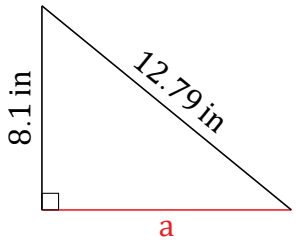
$c = 11.34$ ft

Pythagorean Theorem (D)

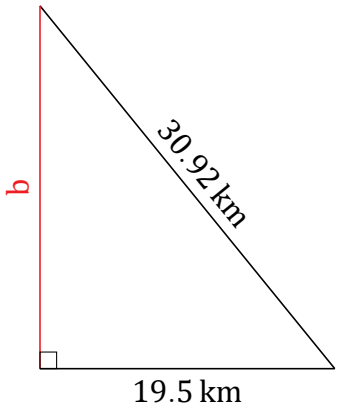
Name: _____ Date: _____

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

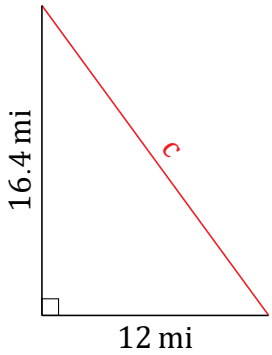
1.



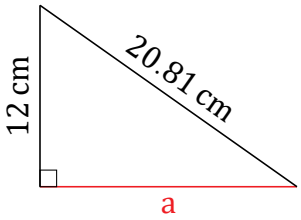
2.



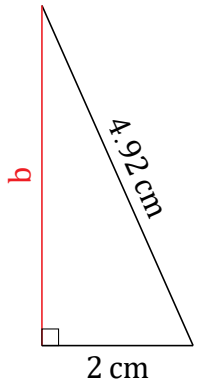
3.



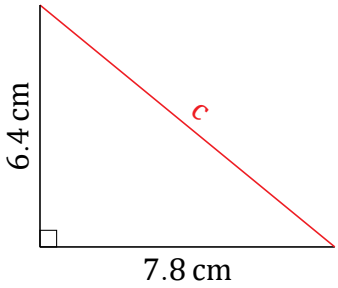
4.



5.



6.

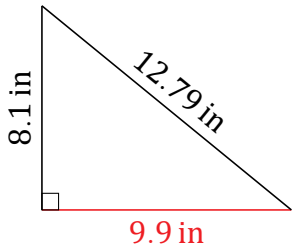


Pythagorean Theorem (D) Answers

Name: _____ Date: _____

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

1.

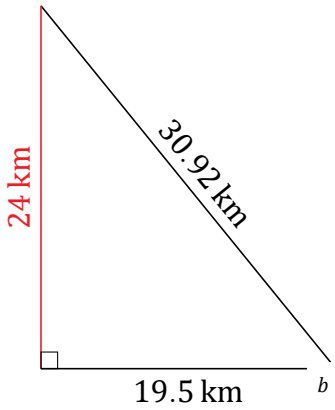


$a^2 + 8.1^2 = 12.79^2$

$a = \sqrt{163.5841 - 65.61}$

$a = 9.9 \text{ in}$

2.

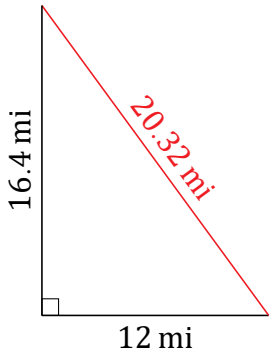


$19.5^2 + b^2 = 30.92^2$

$b = \sqrt{956.0464 - 380.25}$

$b = 24 \text{ km}$

3.

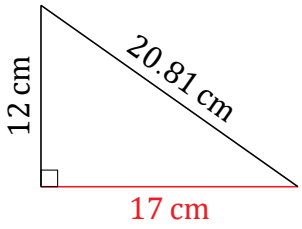


$12^2 + 16.4^2 = c^2$

$c = \sqrt{144 + 268.96}$

$c = 20.32 \text{ mi}$

4.

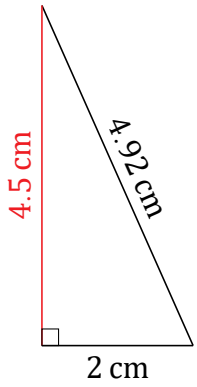


$a^2 + 12^2 = 20.81^2$

$a = \sqrt{433.0561 - 144}$

$a = 17 \text{ cm}$

5.

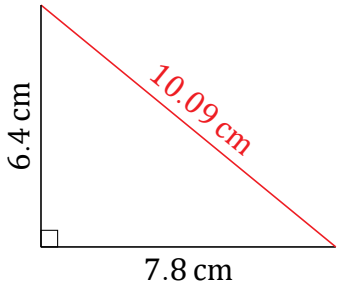


$2^2 + b^2 = 4.92^2$

$b = \sqrt{24.2064 - 4}$

$b = 4.5 \text{ cm}$

6.



$7.8^2 + 6.4^2 = c^2$

$c = \sqrt{60.84 + 40.96}$

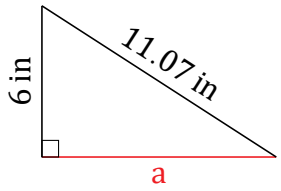
$c = 10.09 \text{ cm}$

Pythagorean Theorem (E)

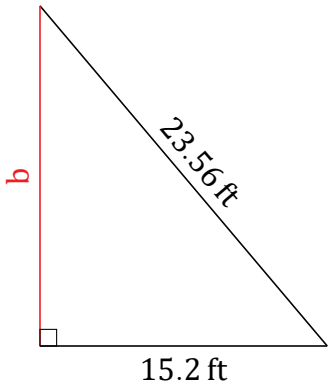
Name: _____ Date: _____

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

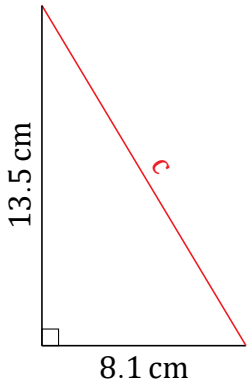
1.



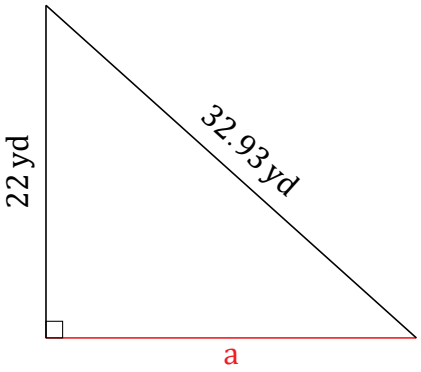
2.



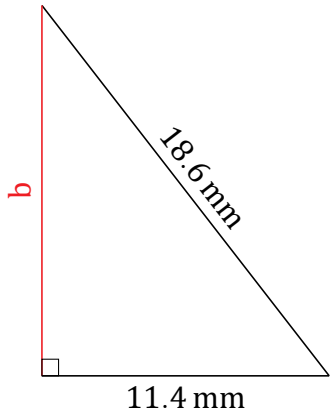
3.



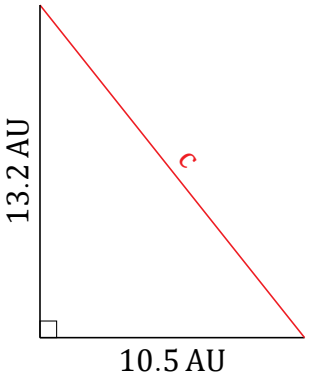
4.



5.



6.

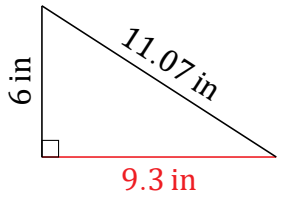


Pythagorean Theorem (E) Answers

Name: _____ Date: _____

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

1.

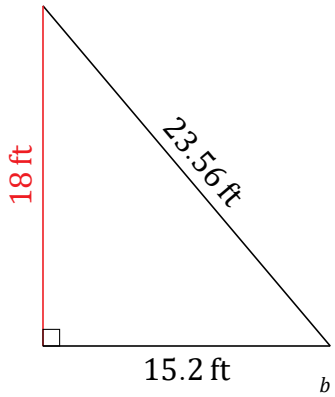


$a^2 + 6^2 = 11.07^2$

$a = \sqrt{122.5449 - 36}$

$a = 9.3$ in

2.

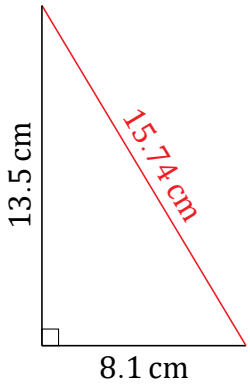


$15.2^2 + b^2 = 23.56^2$

$b = \sqrt{555.0736 - 231.04}$

$b = 18$ ft

3.

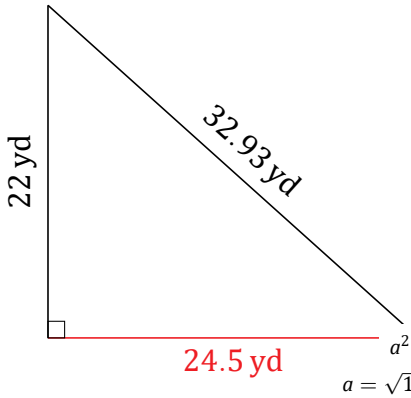


$8.1^2 + 13.5^2 = c^2$

$c = \sqrt{65.61 + 182.25}$

$c = 15.74$ cm

4.

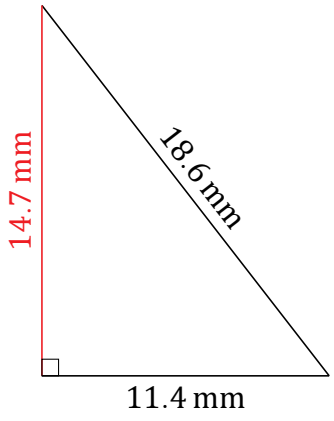


$a^2 + 22^2 = 32.93^2$

$a = \sqrt{1084.3849 - 484}$

$a = 24.5$ yd

5.

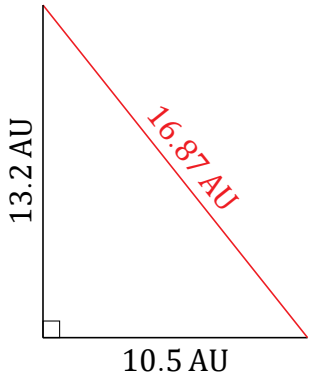


$11.4^2 + b^2 = 18.6^2$

$b = \sqrt{345.96 - 129.96}$

$b = 14.7$ mm

6.



$10.5^2 + 13.2^2 = c^2$

$c = \sqrt{110.25 + 174.24}$

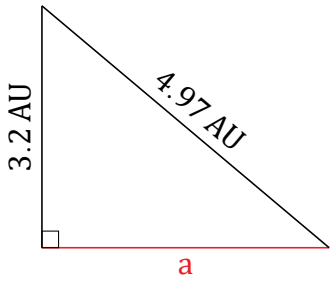
$c = 16.87$ AU

Pythagorean Theorem (F)

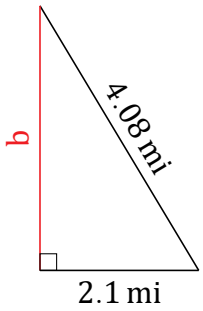
Name: _____ Date: _____

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

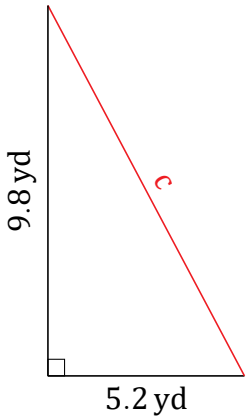
1.



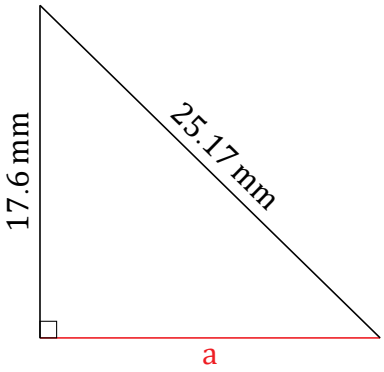
2.



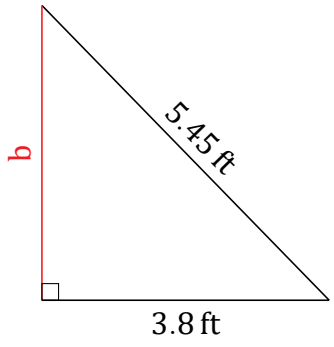
3.



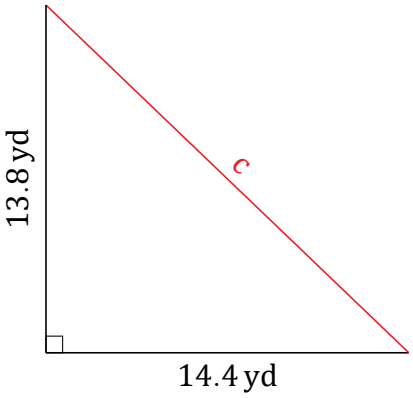
4.



5.



6.

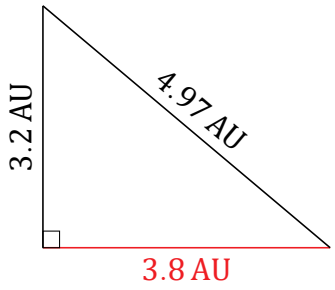


Pythagorean Theorem (F) Answers

Name: _____ Date: _____

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

1.

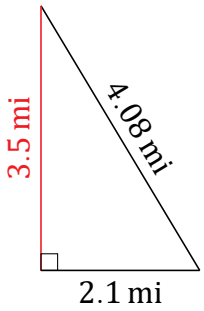


$a^2 + 3.2^2 = 4.97^2$

$a = \sqrt{24.7009 - 10.24}$

$a = 3.8\,\text{AU}$

2.

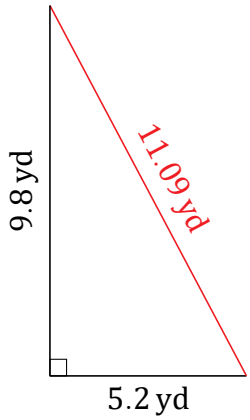


$2.1^2 + b^2 = 4.08^2$

$b = \sqrt{16.6464 - 4.41}$

$b = 3.5\,\text{mi}$

3.

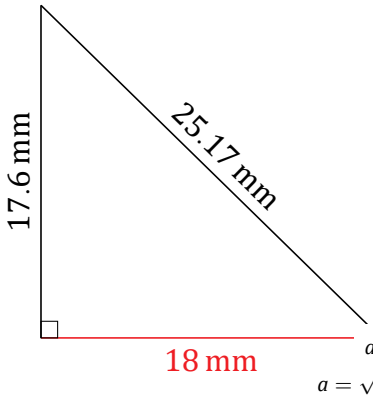


$5.2^2 + 9.8^2 = c^2$

$c = \sqrt{27.04 + 96.04}$

$c = 11.09\,\text{yd}$

4.

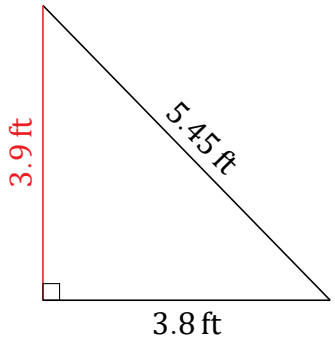


$a^2 + 17.6^2 = 25.17^2$

$a = \sqrt{633.5289 - 309.76}$

$a = 18\,\text{mm}$

5.

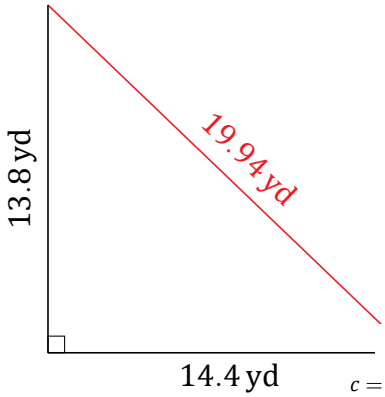


$3.8^2 + b^2 = 5.45^2$

$b = \sqrt{29.7025 - 14.44}$

$b = 3.9\,\text{ft}$

6.



$14.4^2 + 13.8^2 = c^2$

$c = \sqrt{207.36 + 190.44}$

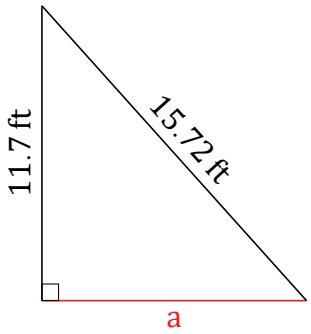
$c = 19.94\,\text{yd}$

Pythagorean Theorem (G)

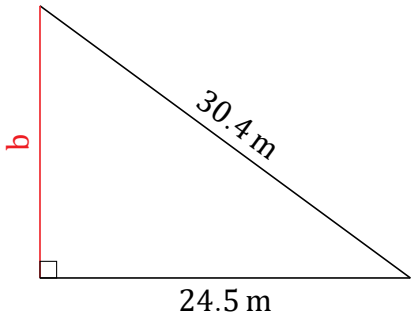
Name: _____ Date: _____

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

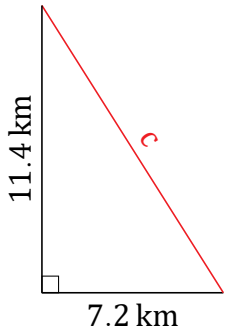
1.



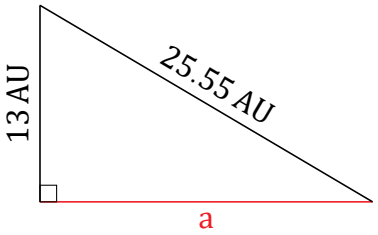
2.



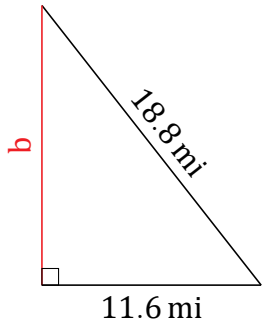
3.



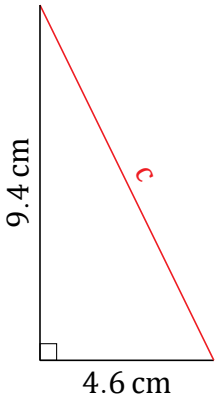
4.



5.



6.

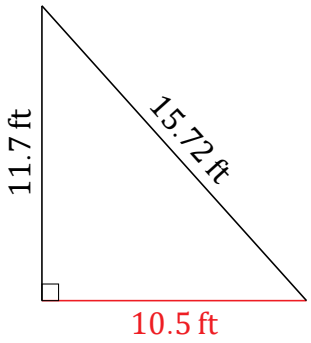


Pythagorean Theorem (G) Answers

Name: _____ Date: _____

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

1.

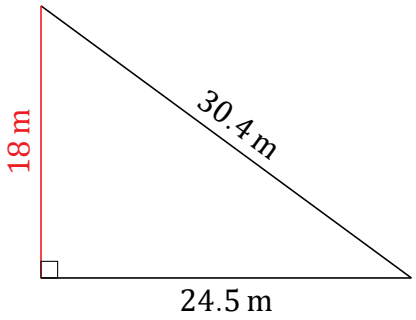


$a^2 + 11.7^2 = 15.72^2$

$a = \sqrt{247.1184 - 136.89}$

$a = 10.5\,\text{ft}$

2.

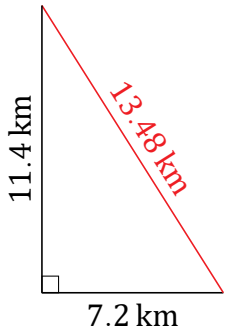


$24.5^2 + b^2 = 30.4^2$

$b = \sqrt{924.16 - 600.25}$

$b = 18\,\text{m}$

3.

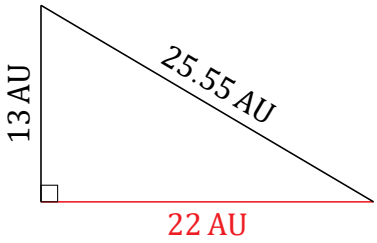


$7.2^2 + 11.4^2 = c^2$

$c = \sqrt{51.84 + 129.96}$

$c = 13.48\,\text{km}$

4.

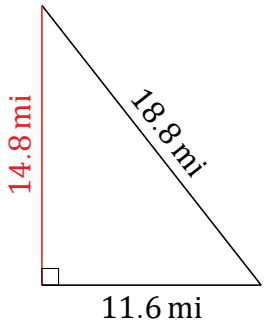


$a^2 + 13^2 = 25.55^2$

$a = \sqrt{652.8025 - 169}$

$a = 22\,\text{AU}$

5.

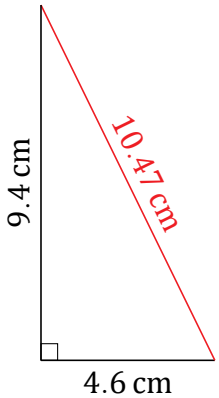


$11.6^2 + b^2 = 18.8^2$

$b = \sqrt{353.44 - 134.56}$

$b = 14.8\,\text{mi}$

6.



$4.6^2 + 9.4^2 = c^2$

$c = \sqrt{21.16 + 88.36}$

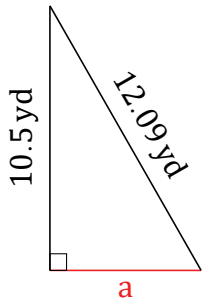
$c = 10.47\,\text{cm}$

Pythagorean Theorem (H)

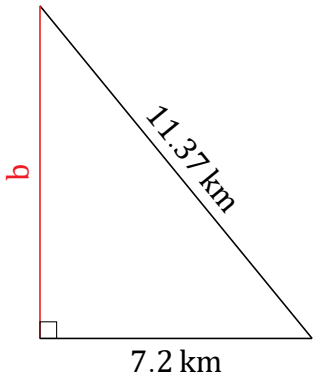
Name: _____ Date: _____

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

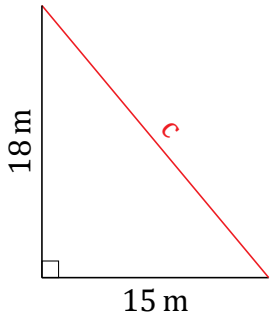
1.



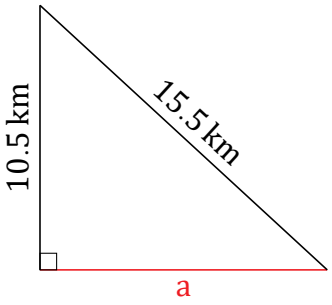
2.



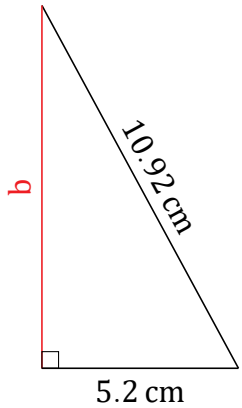
3.



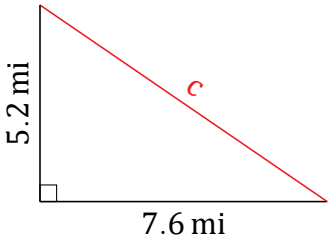
4.



5.



6.

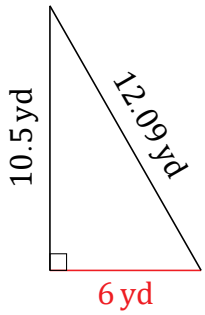


Pythagorean Theorem (H) Answers

Name: _____ Date: _____

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

1.

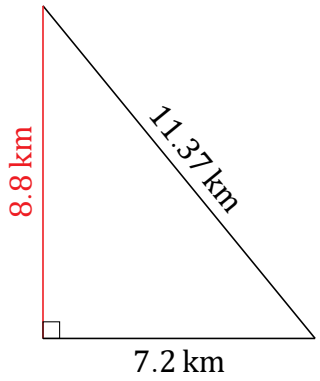


$a^2 + 10.5^2 = 12.09^2$

$a = \sqrt{146.1681 - 110.25}$

$a = 6$ yd

2.

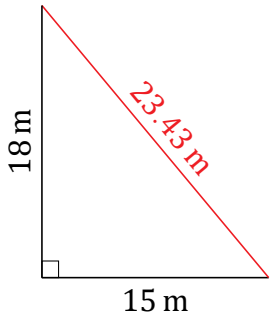


$7.2^2 + b^2 = 11.37^2$

$b = \sqrt{129.2769 - 51.84}$

$b = 8.8$ km

3.

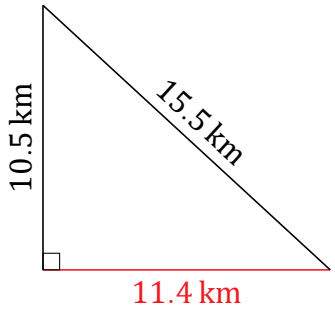


$15^2 + 18^2 = c^2$

$c = \sqrt{225 + 324}$

$c = 23.43$ m

4.

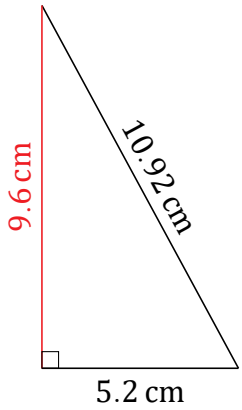


$a^2 + 10.5^2 = 15.5^2$

$a = \sqrt{240.25 - 110.25}$

$a = 11.4$ km

5.

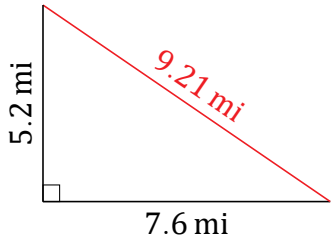


$5.2^2 + b^2 = 10.92^2$

$b = \sqrt{119.2464 - 27.04}$

$b = 9.6$ cm

6.



$7.6^2 + 5.2^2 = c^2$

$c = \sqrt{57.76 + 27.04}$

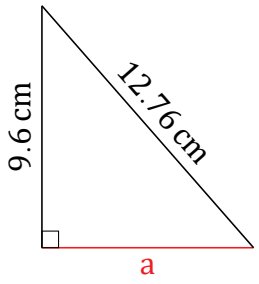
$c = 9.21$ mi

Pythagorean Theorem (I)

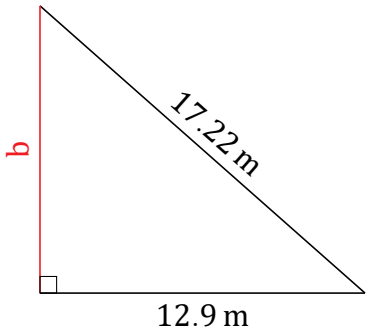
Name: _____ Date: _____

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

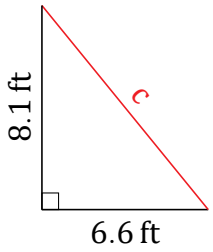
1.



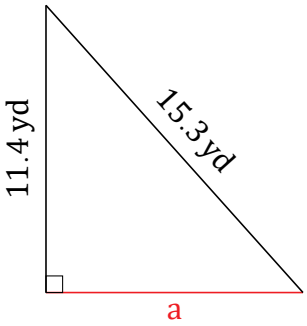
2.



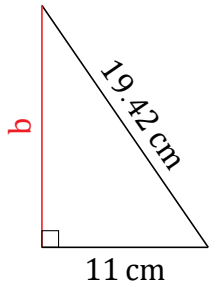
3.



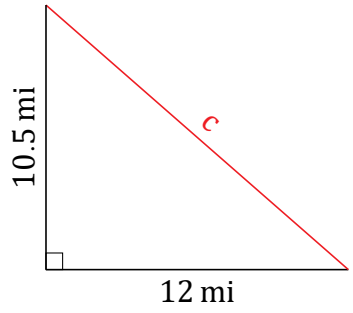
4.



5.



6.

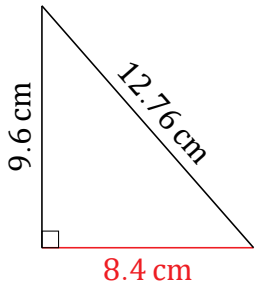


Pythagorean Theorem (I) Answers

Name: _____ Date: _____

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

1.

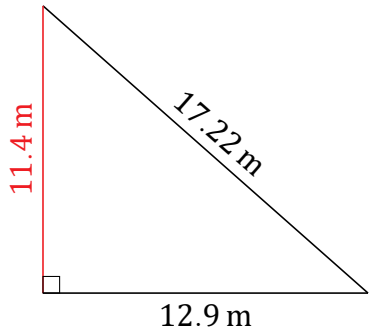


$a^2 + 9.6^2 = 12.76^2$

$a = \sqrt{162.8176 - 92.16}$

$a = 8.4$ cm

2.

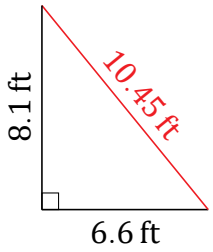


$12.9^2 + b^2 = 17.22^2$

$b = \sqrt{296.5284 - 166.41}$

$b = 11.4$ m

3.

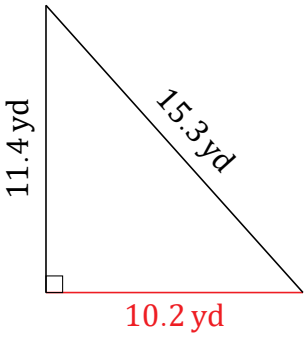


$6.6^2 + 8.1^2 = c^2$

$c = \sqrt{43.56 + 65.61}$

$c = 10.45$ ft

4.

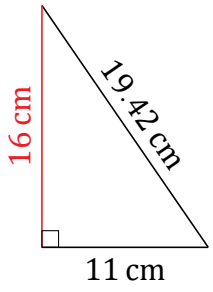


$a^2 + 11.4^2 = 15.3^2$

$a = \sqrt{234.09 - 129.96}$

$a = 10.2$ yd

5.

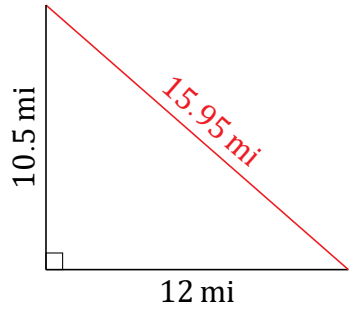


$11^2 + b^2 = 19.42^2$

$b = \sqrt{377.1364 - 121}$

$b = 16$ cm

6.



$12^2 + 10.5^2 = c^2$

$c = \sqrt{144 + 110.25}$

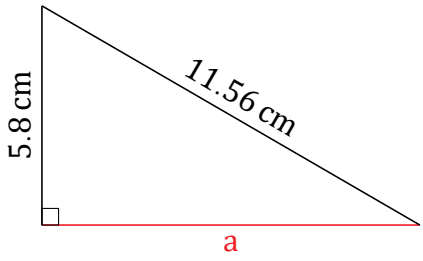
$c = 15.95$ mi

Pythagorean Theorem (J)

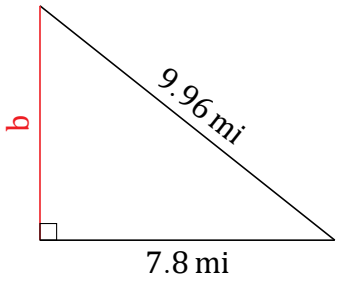
Name: _____ Date: _____

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

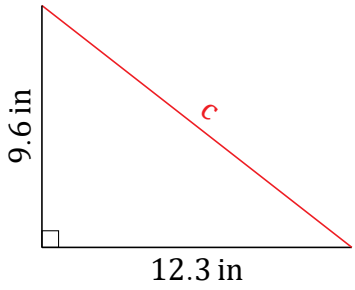
1.



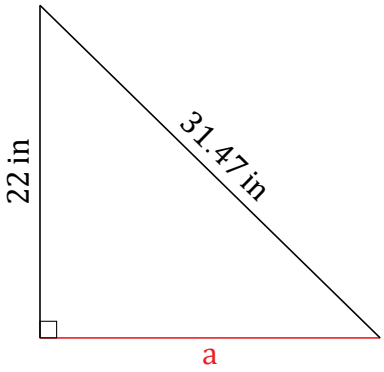
2.



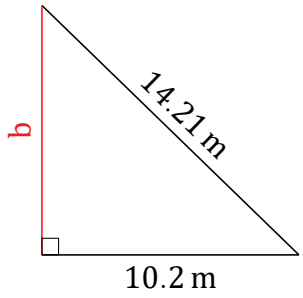
3.



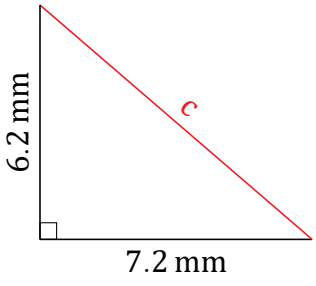
4.



5.



6.

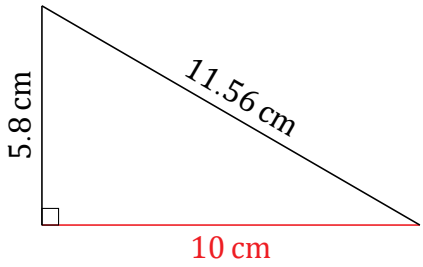


Pythagorean Theorem (J) Answers

Name: _____ Date: _____

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

1.

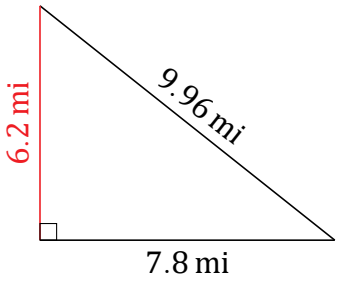


$a^2 + 5.8^2 = 11.56^2$

$a = \sqrt{133.6336 - 33.64}$

$a = 10$ cm

2.

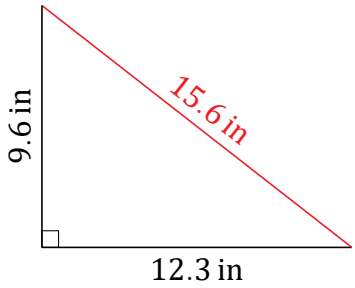


$7.8^2 + b^2 = 9.96^2$

$b = \sqrt{99.2016 - 60.84}$

$b = 6.2$ mi

3.

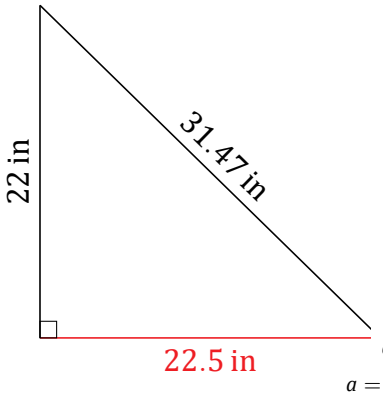


$12.3^2 + 9.6^2 = c^2$

$c = \sqrt{151.29 + 92.16}$

$c = 15.6$ in

4.

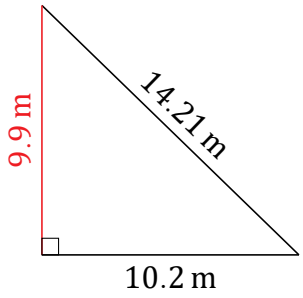


$a^2 + 22^2 = 31.47^2$

$a = \sqrt{990.3609 - 484}$

$a = 22.5$ in

5.

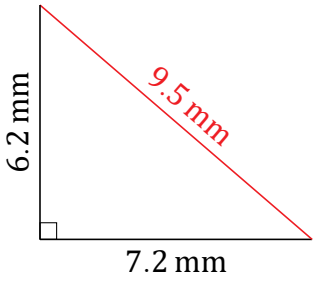


$10.2^2 + b^2 = 14.21^2$

$b = \sqrt{201.9241 - 104.04}$

$b = 9.9$ m

6.



$7.2^2 + 6.2^2 = c^2$

$c = \sqrt{51.84 + 38.44}$

$c = 9.5$ mm