

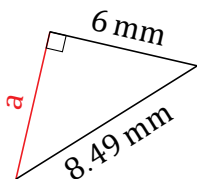
# Pythagorean Theorem (A)

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

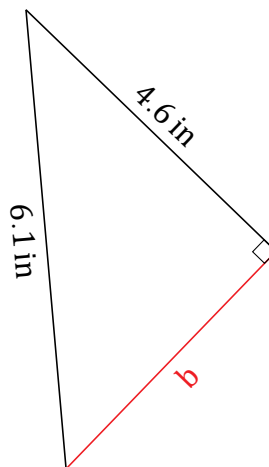
Date: \_\_\_\_\_

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

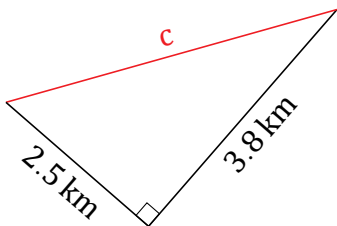
1.



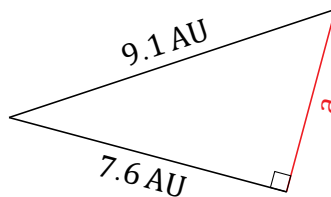
2.



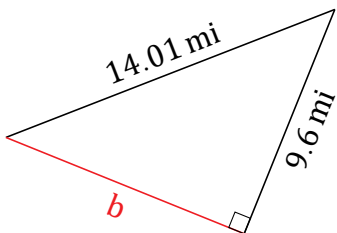
3.



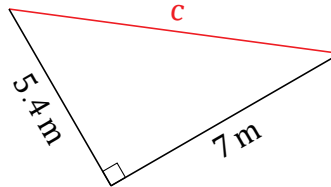
4.



5.



6.



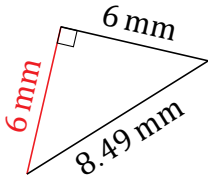
# Pythagorean Theorem (A) Answers

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

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

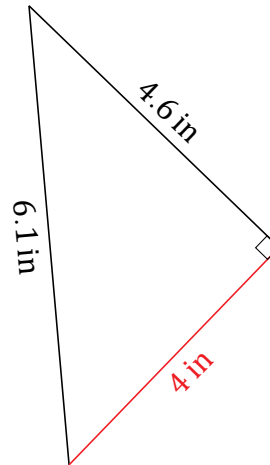
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



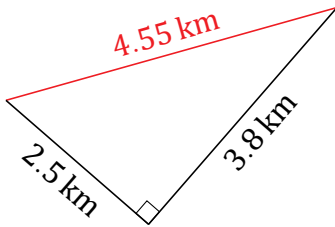
$$\begin{aligned}a^2 + 6^2 &= 8.49^2 \\a &= \sqrt{72.0801 - 36} \\a &= 6 \text{ mm}\end{aligned}$$

2.



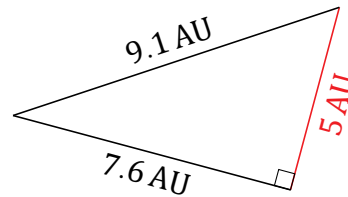
$$\begin{aligned}4.6^2 + b^2 &= 6.1^2 \\b &= \sqrt{37.21 - 21.16} \\b &= 4 \text{ in}\end{aligned}$$

3.



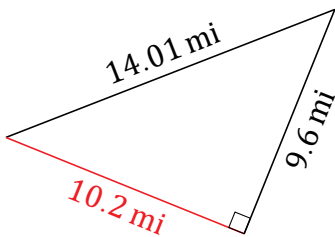
$$\begin{aligned}3.8^2 + 2.5^2 &= c^2 \\c &= \sqrt{14.44 + 6.25} \\c &= 4.55 \text{ km}\end{aligned}$$

4.



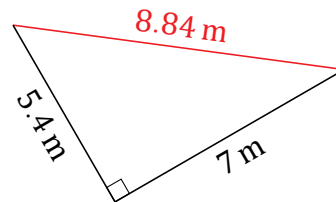
$$\begin{aligned}a^2 + 7.6^2 &= 9.1^2 \\a &= \sqrt{82.81 - 57.76} \\a &= 5 \text{ AU}\end{aligned}$$

5.



$$\begin{aligned}9.6^2 + b^2 &= 14.01^2 \\b &= \sqrt{196.2801 - 92.16} \\b &= 10.2 \text{ mi}\end{aligned}$$

6.



$$\begin{aligned}7^2 + 5.4^2 &= c^2 \\c &= \sqrt{49 + 29.16} \\c &= 8.84 \text{ m}\end{aligned}$$

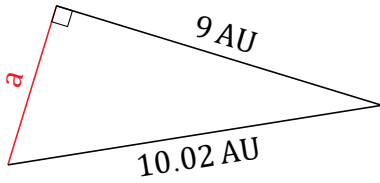
# Pythagorean Theorem (B)

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

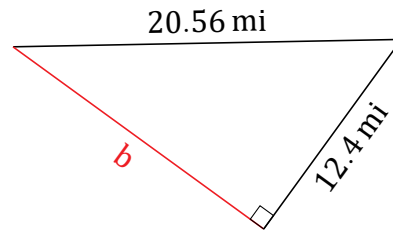
Date: \_\_\_\_\_

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

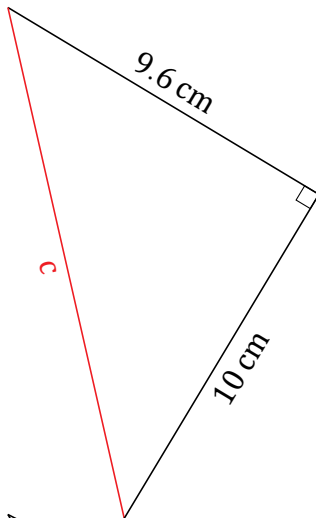
1.



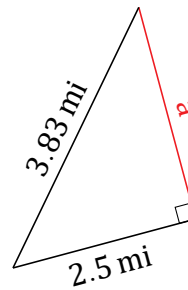
2.



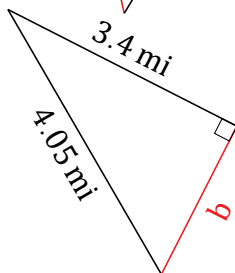
3.



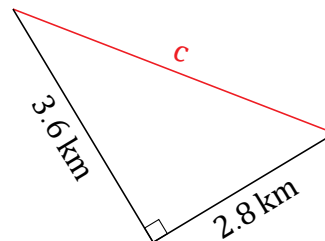
4.



5.



6.



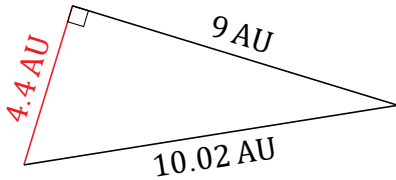
# Pythagorean Theorem (B) Answers

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

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

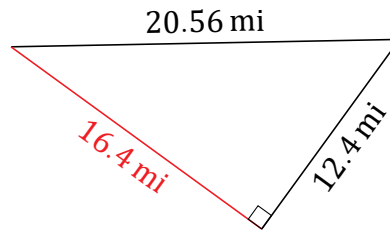
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



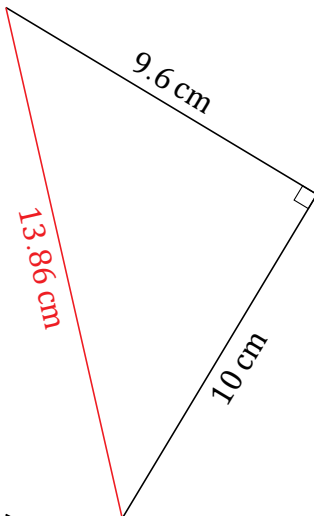
$$\begin{aligned} a^2 + 9^2 &= 10.02^2 \\ a &= \sqrt{100.4004 - 81} \\ a &= 4.4 \text{ AU} \end{aligned}$$

2.



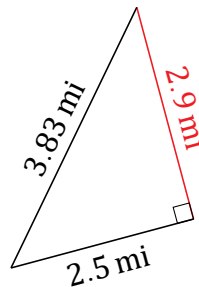
$$\begin{aligned} 12.4^2 + b^2 &= 20.56^2 \\ b &= \sqrt{422.7136 - 153.76} \\ b &= 16.4 \text{ mi} \end{aligned}$$

3.



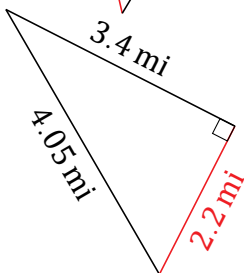
$$\begin{aligned} 9.6^2 + 10^2 &= c^2 \\ c &= \sqrt{92.16 + 100} \\ c &= 13.86 \text{ cm} \end{aligned}$$

4.



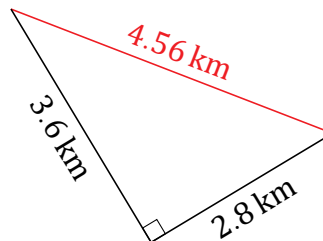
$$\begin{aligned} a^2 + 2.5^2 &= 3.83^2 \\ a &= \sqrt{14.6689 - 6.25} \\ a &= 2.9 \text{ mi} \end{aligned}$$

5.



$$\begin{aligned} 3.4^2 + b^2 &= 4.05^2 \\ b &= \sqrt{16.4025 - 11.56} \\ b &= 2.2 \text{ mi} \end{aligned}$$

6.



$$\begin{aligned} 2.8^2 + 3.6^2 &= c^2 \\ c &= \sqrt{7.84 + 12.96} \\ c &= 4.56 \text{ km} \end{aligned}$$

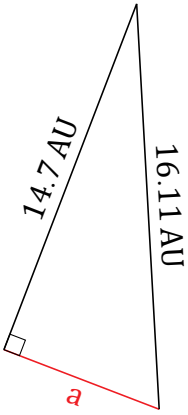
# Pythagorean Theorem (C)

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

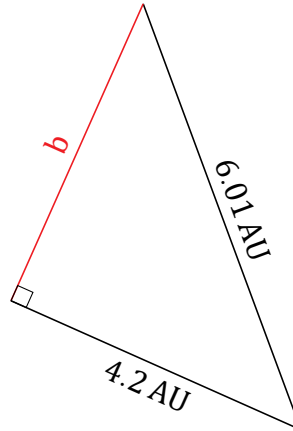
Date: \_\_\_\_\_

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

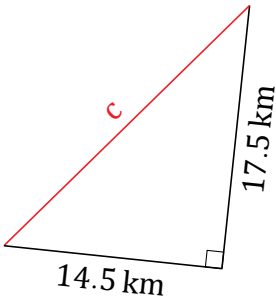
1.



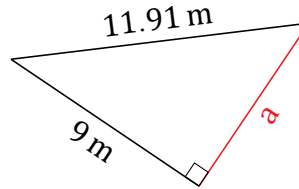
2.



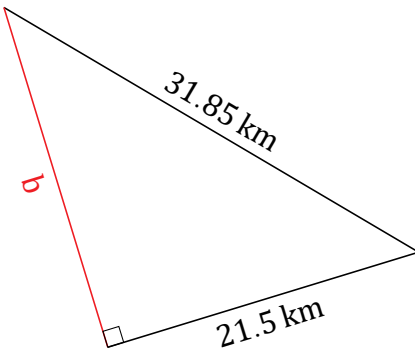
3.



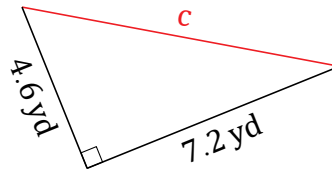
4.



5.



6.



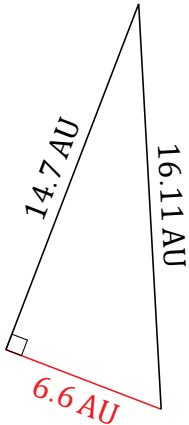
# Pythagorean Theorem (C) Answers

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

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

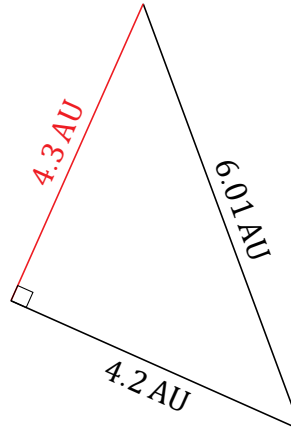
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



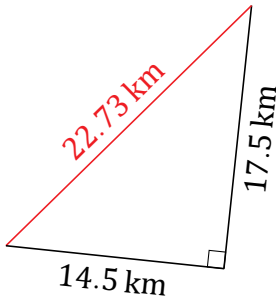
$$\begin{aligned}a^2 + 14.7^2 &= 16.11^2 \\a &= \sqrt{259.5321 - 216.09} \\a &= 6.6 \text{ AU}\end{aligned}$$

2.



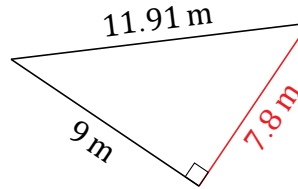
$$\begin{aligned}4.2^2 + b^2 &= 6.01^2 \\b &= \sqrt{36.1201 - 17.64} \\b &= 4.3 \text{ AU}\end{aligned}$$

3.



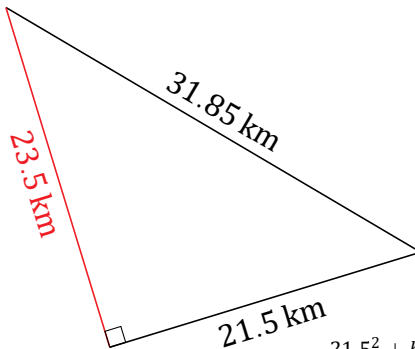
$$\begin{aligned}17.5^2 + 14.5^2 &= c^2 \\c &= \sqrt{306.25 + 210.25} \\c &= 22.73 \text{ km}\end{aligned}$$

4.



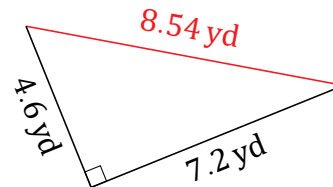
$$\begin{aligned}a^2 + 9^2 &= 11.91^2 \\a &= \sqrt{141.8481 - 81} \\a &= 7.8 \text{ m}\end{aligned}$$

5.



$$\begin{aligned}21.5^2 + b^2 &= 31.85^2 \\b &= \sqrt{1014.4225 - 462.25} \\b &= 23.5 \text{ km}\end{aligned}$$

6.



$$\begin{aligned}7.2^2 + 4.6^2 &= c^2 \\c &= \sqrt{51.84 + 21.16} \\c &= 8.54 \text{ yd}\end{aligned}$$

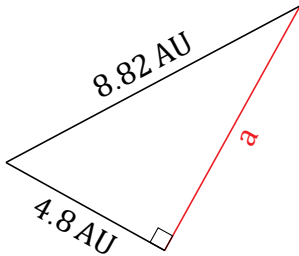
# Pythagorean Theorem (D)

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

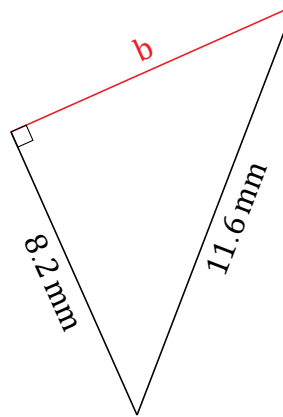
Date: \_\_\_\_\_

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

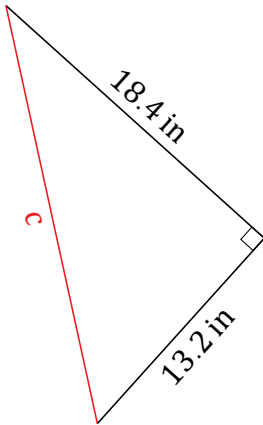
1.



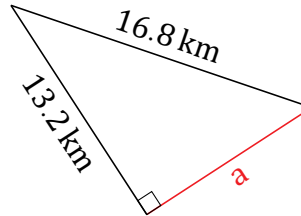
2.



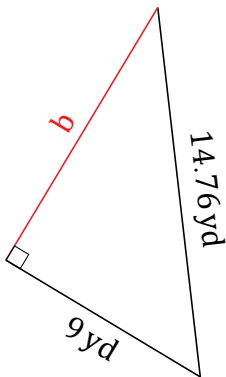
3.



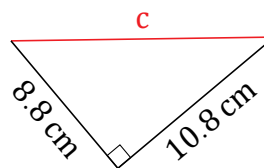
4.



5.



6.



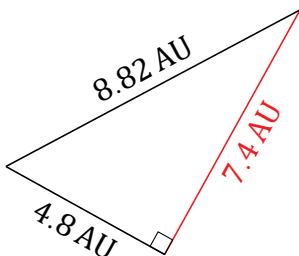
# Pythagorean Theorem (D) Answers

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

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

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

1.

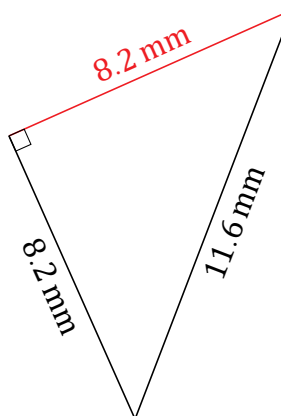


$$a^2 + 4.8^2 = 8.82^2$$

$$a = \sqrt{77.7924 - 23.04}$$

$$a = 7.4 \text{ AU}$$

2.

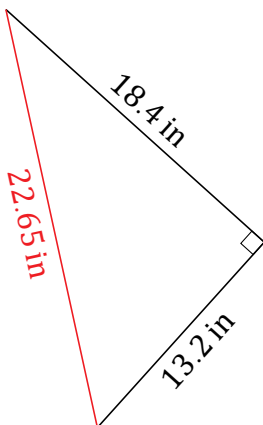


$$8.2^2 + b^2 = 11.6^2$$

$$b = \sqrt{134.56 - 67.24}$$

$$b = 8.2 \text{ mm}$$

3.

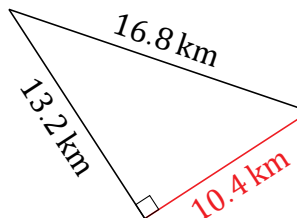


$$18.4^2 + 13.2^2 = c^2$$

$$c = \sqrt{338.56 + 174.24}$$

$$c = 22.65 \text{ in}$$

4.

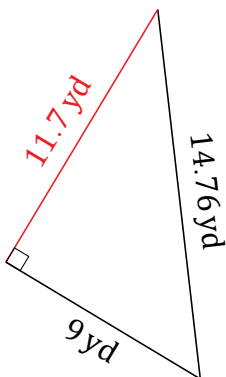


$$a^2 + 13.2^2 = 16.8^2$$

$$a = \sqrt{282.24 - 174.24}$$

$$a = 10.4 \text{ km}$$

5.

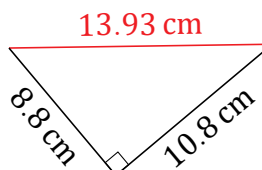


$$9^2 + b^2 = 14.76^2$$

$$b = \sqrt{217.8576 - 81}$$

$$b = 11.7 \text{ yd}$$

6.



$$10.8^2 + 8.8^2 = c^2$$

$$c = \sqrt{116.64 + 77.44}$$

$$c = 13.93 \text{ cm}$$



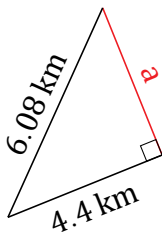
# Pythagorean Theorem (E)

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

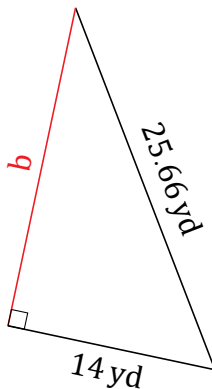
Date: \_\_\_\_\_

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

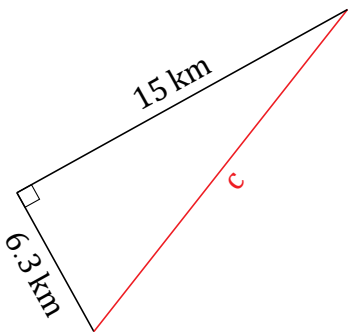
1.



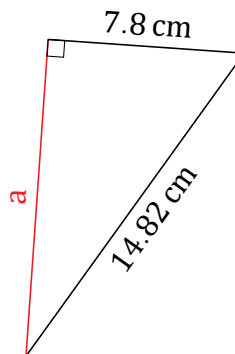
2.



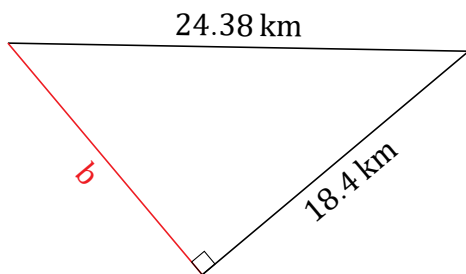
3.



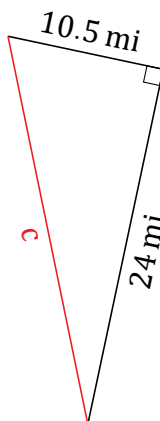
4.



5.



6.



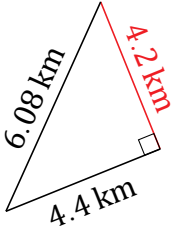
# Pythagorean Theorem (E) Answers

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

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

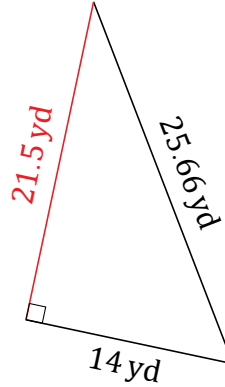
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



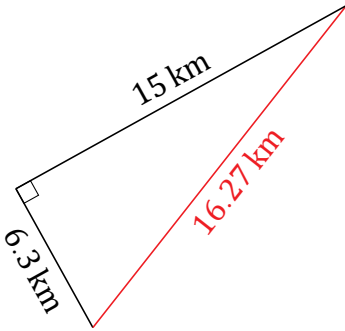
$$a^2 + 4.4^2 = 6.08^2$$
$$a = \sqrt{36.9664 - 19.36}$$
$$a = 4.2 \text{ km}$$

2.



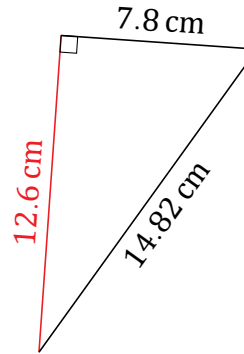
$$14^2 + b^2 = 25.66^2$$
$$b = \sqrt{658.4356 - 196}$$
$$b = 21.5 \text{ yd}$$

3.



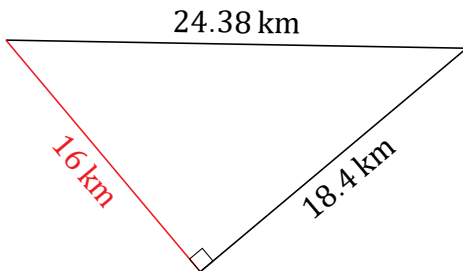
$$6.3^2 + 15^2 = c^2$$
$$c = \sqrt{39.69 + 225}$$
$$c = 16.27 \text{ km}$$

4.



$$a^2 + 7.8^2 = 14.82^2$$
$$a = \sqrt{219.6324 - 60.84}$$
$$a = 12.6 \text{ cm}$$

5.



$$18.4^2 + b^2 = 24.38^2$$
$$b = \sqrt{594.3844 - 338.56}$$
$$b = 16 \text{ km}$$

6.



$$10.5^2 + 24^2 = c^2$$
$$c = \sqrt{110.25 + 576}$$
$$c = 26.2 \text{ mi}$$

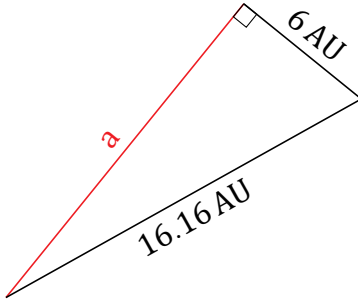
# Pythagorean Theorem (F)

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

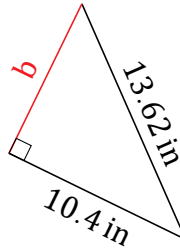
Date: \_\_\_\_\_

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

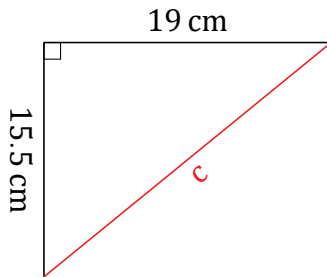
1.



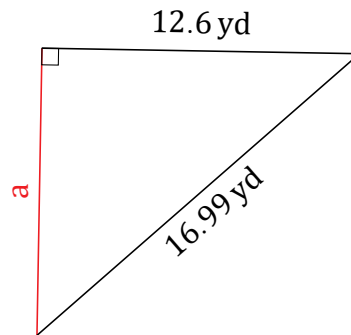
2.



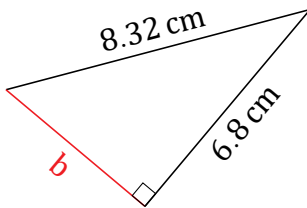
3.



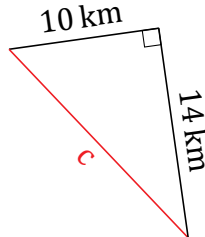
4.



5.



6.



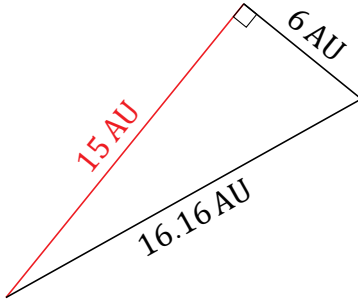
# Pythagorean Theorem (F) Answers

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

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

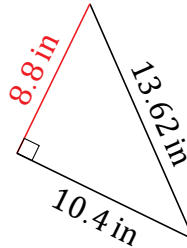
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



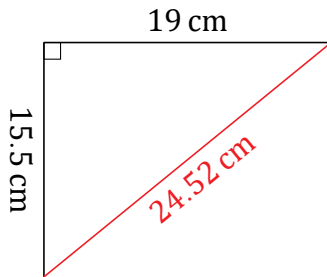
$$\begin{aligned}a^2 + 6^2 &= 16.16^2 \\a &= \sqrt{261.1456 - 36} \\a &= 15 \text{ AU}\end{aligned}$$

2.



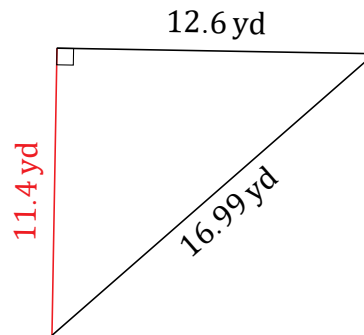
$$\begin{aligned}10.4^2 + b^2 &= 13.62^2 \\b &= \sqrt{185.5044 - 108.16} \\b &= 8.8 \text{ in}\end{aligned}$$

3.



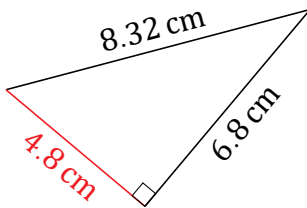
$$\begin{aligned}15.5^2 + 19^2 &= c^2 \\c &= \sqrt{240.25 + 361} \\c &= 24.52 \text{ cm}\end{aligned}$$

4.



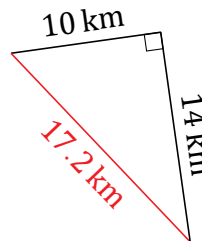
$$\begin{aligned}a^2 + 12.6^2 &= 16.99^2 \\a &= \sqrt{288.6601 - 158.76} \\a &= 11.4 \text{ yd}\end{aligned}$$

5.



$$\begin{aligned}6.8^2 + b^2 &= 8.32^2 \\b &= \sqrt{69.2224 - 46.24} \\b &= 4.8 \text{ cm}\end{aligned}$$

6.



$$\begin{aligned}10^2 + 14^2 &= c^2 \\c &= \sqrt{100 + 196} \\c &= 17.2 \text{ km}\end{aligned}$$

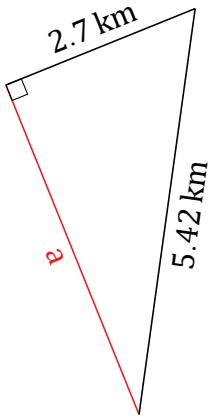
# Pythagorean Theorem (G)

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

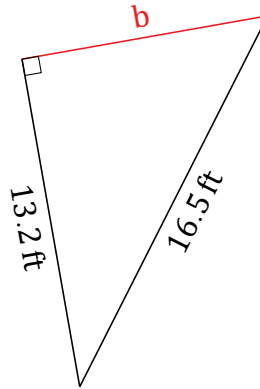
Date: \_\_\_\_\_

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

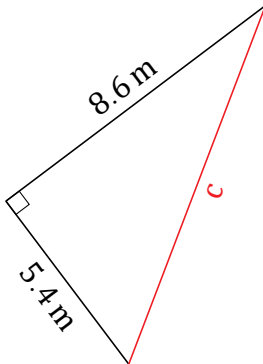
1.



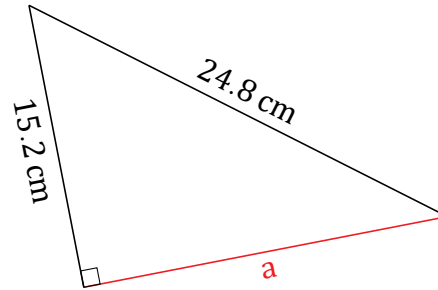
2.



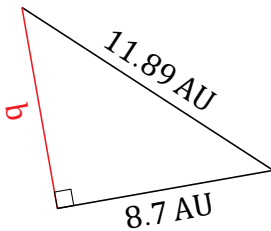
3.



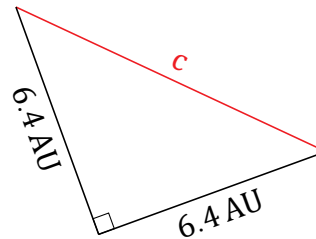
4.



5.



6.



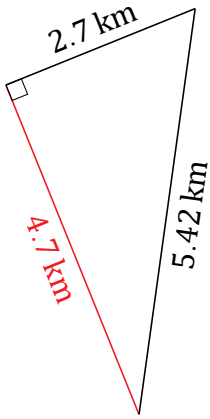
# Pythagorean Theorem (G) Answers

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

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

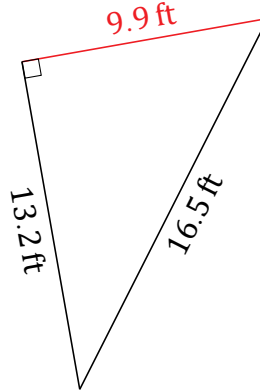
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



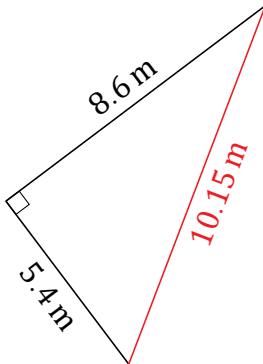
$$a^2 + 2.7^2 = 5.42^2$$
$$a = \sqrt{29.3764 - 7.29}$$
$$a = 4.7 \text{ km}$$

2.



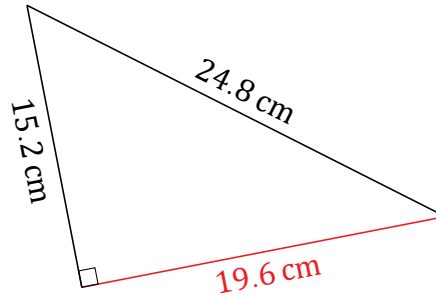
$$13.2^2 + b^2 = 16.5^2$$
$$b = \sqrt{272.25 - 174.24}$$
$$b = 9.9 \text{ ft}$$

3.



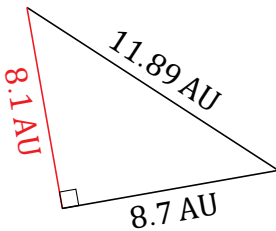
$$5.4^2 + 8.6^2 = c^2$$
$$c = \sqrt{29.16 + 73.96}$$
$$c = 10.15 \text{ m}$$

4.



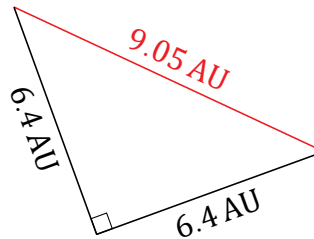
$$a^2 + 15.2^2 = 24.8^2$$
$$a = \sqrt{615.04 - 231.04}$$
$$a = 19.6 \text{ cm}$$

5.



$$8.7^2 + b^2 = 11.89^2$$
$$b = \sqrt{141.3721 - 75.69}$$
$$b = 8.1 \text{ AU}$$

6.



$$6.4^2 + 6.4^2 = c^2$$
$$c = \sqrt{40.96 + 40.96}$$
$$c = 9.05 \text{ AU}$$

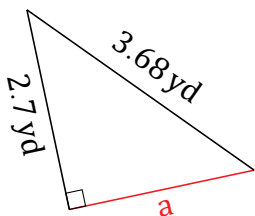
# Pythagorean Theorem (H)

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

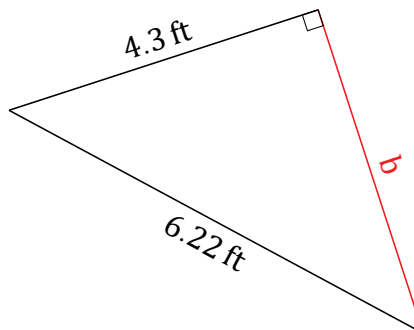
Date: \_\_\_\_\_

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

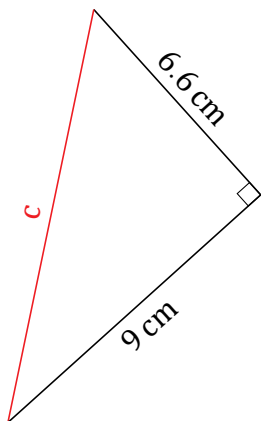
1.



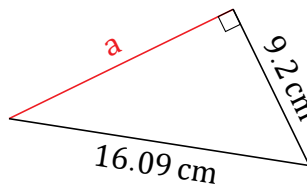
2.



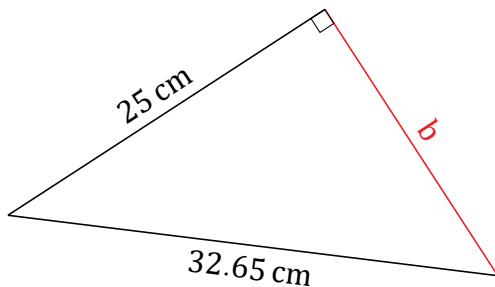
3.



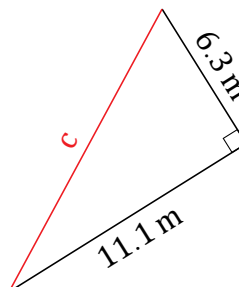
4.



5.



6.



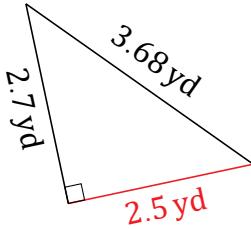
# Pythagorean Theorem (H) Answers

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

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

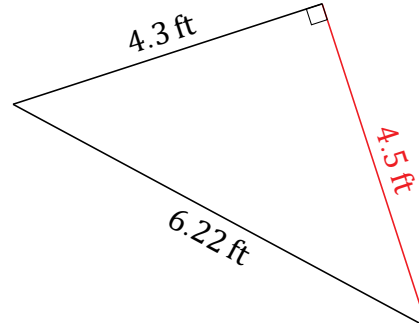
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



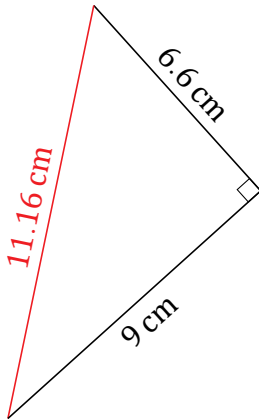
$$a^2 + 2.7^2 = 3.68^2$$
$$a = \sqrt{13.5424 - 7.29}$$
$$a = 2.5 \text{ yd}$$

2.



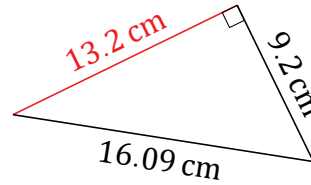
$$4.3^2 + b^2 = 6.22^2$$
$$b = \sqrt{38.6884 - 18.49}$$
$$b = 4.5 \text{ ft}$$

3.



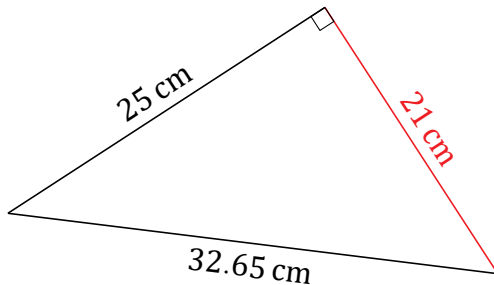
$$6.6^2 + 9^2 = c^2$$
$$c = \sqrt{43.56 + 81}$$
$$c = 11.16 \text{ cm}$$

4.



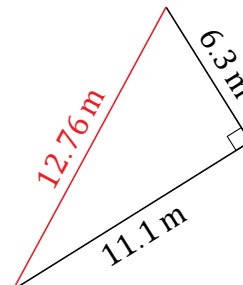
$$a^2 + 9.2^2 = 16.09^2$$
$$a = \sqrt{258.8881 - 84.64}$$
$$a = 13.2 \text{ cm}$$

5.



$$25^2 + b^2 = 32.65^2$$
$$b = \sqrt{1066.0225 - 625}$$
$$b = 21 \text{ cm}$$

6.



$$6.3^2 + 11.1^2 = c^2$$
$$c = \sqrt{39.69 + 123.21}$$
$$c = 12.76 \text{ m}$$



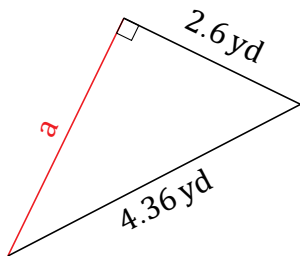
# Pythagorean Theorem (I)

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

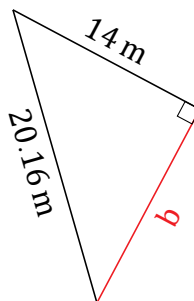
Date: \_\_\_\_\_

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

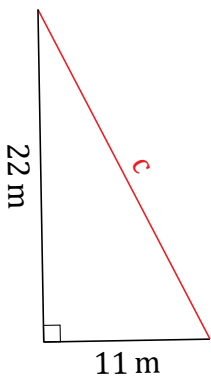
1.



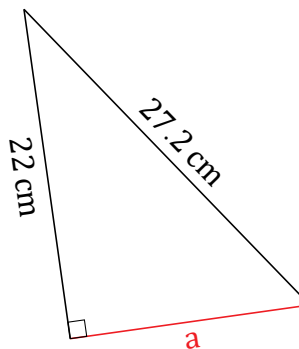
2.



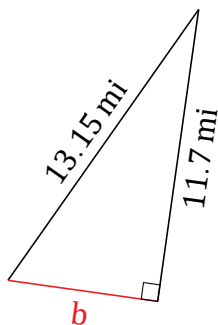
3.



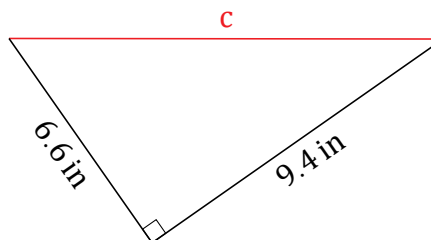
4.



5.



6.



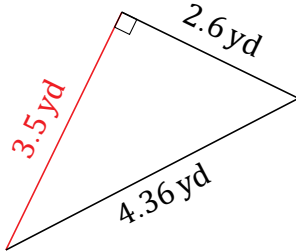
# Pythagorean Theorem (I) Answers

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

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

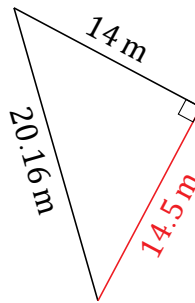
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



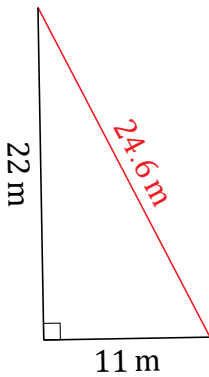
$$a^2 + 2.6^2 = 4.36^2$$
$$a = \sqrt{19.0096 - 6.76}$$
$$a = 3.5 \text{ yd}$$

2.



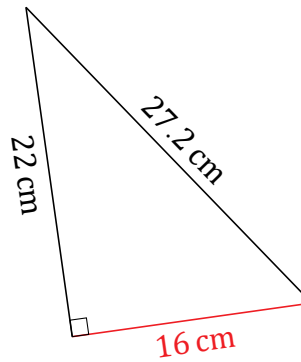
$$14^2 + b^2 = 20.16^2$$
$$b = \sqrt{406.4256 - 196}$$
$$b = 14.5 \text{ m}$$

3.



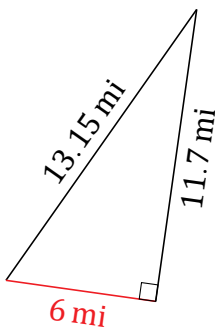
$$11^2 + 22^2 = c^2$$
$$c = \sqrt{121 + 484}$$
$$c = 24.6 \text{ m}$$

4.



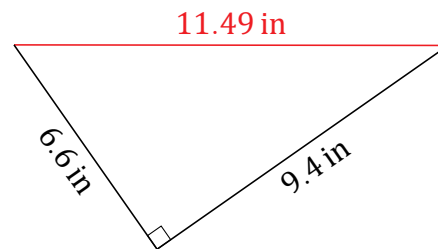
$$a^2 + 22^2 = 27.2^2$$
$$a = \sqrt{739.84 - 484}$$
$$a = 16 \text{ cm}$$

5.



$$11.7^2 + b^2 = 13.15^2$$
$$b = \sqrt{172.9225 - 136.89}$$
$$b = 6 \text{ mi}$$

6.



$$9.4^2 + 6.6^2 = c^2$$
$$c = \sqrt{88.36 + 43.56}$$
$$c = 11.49 \text{ in}$$

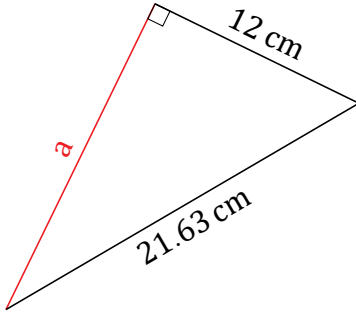
# Pythagorean Theorem (J)

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

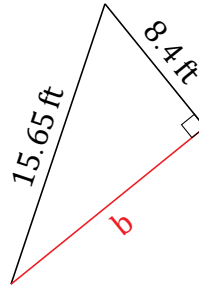
Date: \_\_\_\_\_

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

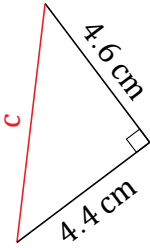
1.



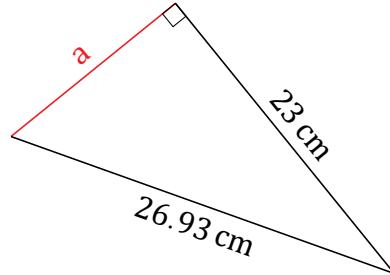
2.



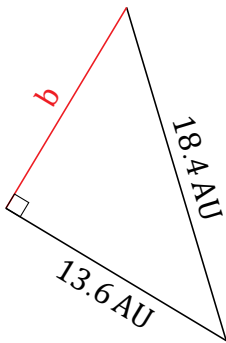
3.



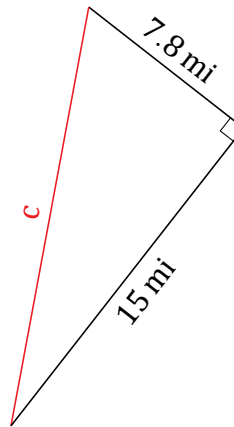
4.



5.



6.



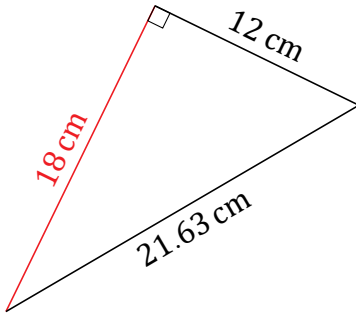
# Pythagorean Theorem (J) Answers

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

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

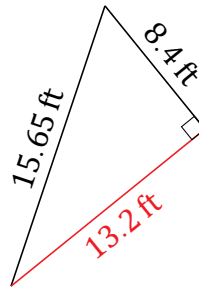
Calculate the missing side measurement using  $a^2 + b^2 = c^2$ .

1.



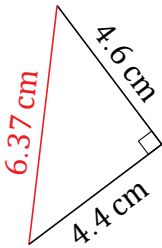
$$a^2 + 12^2 = 21.63^2$$
$$a = \sqrt{467.8569 - 144}$$
$$a = 18 \text{ cm}$$

2.



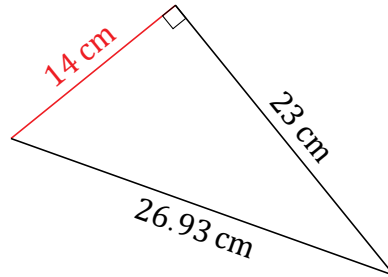
$$8.4^2 + b^2 = 15.65^2$$
$$b = \sqrt{244.9225 - 70.56}$$
$$b = 13.2 \text{ ft}$$

3.



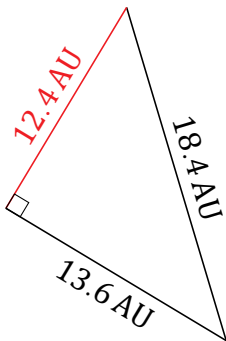
$$4.6^2 + 4.4^2 = c^2$$
$$c = \sqrt{21.16 + 19.36}$$
$$c = 6.37 \text{ cm}$$

4.



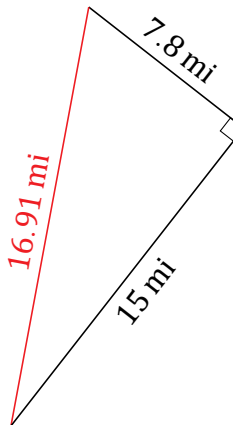
$$a^2 + 23^2 = 26.93^2$$
$$a = \sqrt{725.2249 - 529}$$
$$a = 14 \text{ cm}$$

5.



$$13.6^2 + b^2 = 18.4^2$$
$$b = \sqrt{338.56 - 184.96}$$
$$b = 12.4 \text{ AU}$$

6.



$$7.8^2 + 15^2 = c^2$$
$$c = \sqrt{60.84 + 225}$$
$$c = 16.91 \text{ mi}$$