

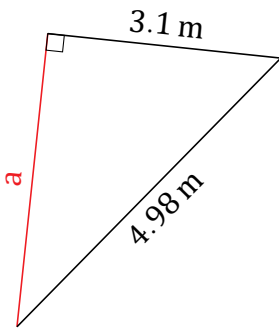
Pythagorean Theorem (F)

Name: _____

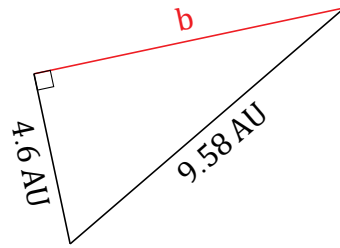
Date: _____

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

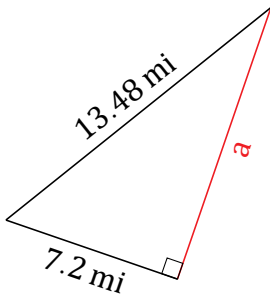
1.



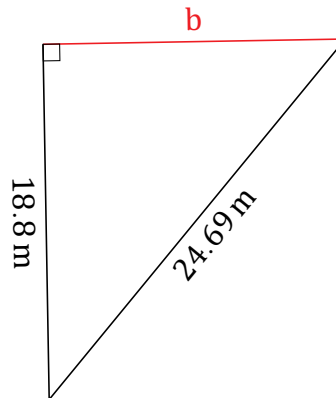
2.



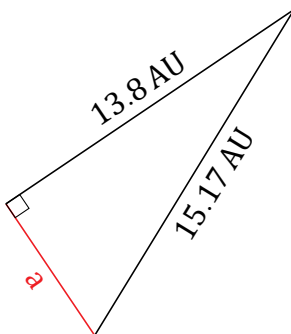
3.



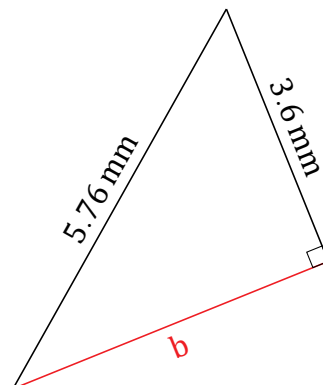
4.



5.



6.



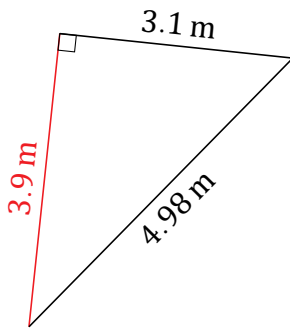
Pythagorean Theorem (F) Answers

Name: _____

Date: _____

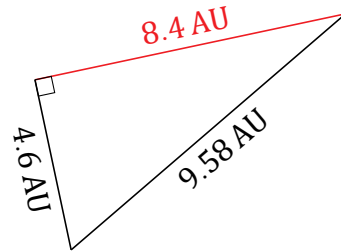
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



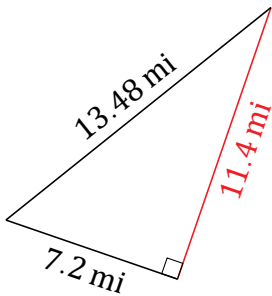
$$a^2 + 3.1^2 = 4.98^2$$
$$a = \sqrt{24.8004 - 9.61}$$
$$a = 3.9 \text{ m}$$

2.



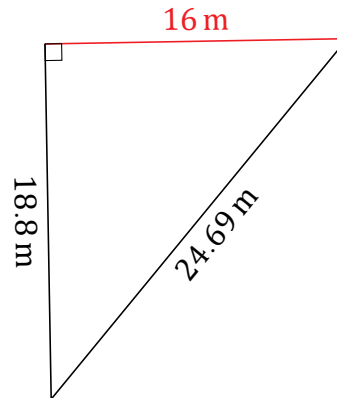
$$4.6^2 + b^2 = 9.58^2$$
$$b = \sqrt{91.7764 - 21.16}$$
$$b = 8.4 \text{ AU}$$

3.



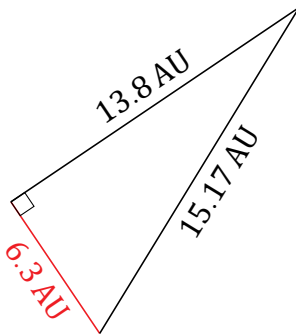
$$a^2 + 7.2^2 = 13.48^2$$
$$a = \sqrt{181.7104 - 51.84}$$
$$a = 11.4 \text{ mi}$$

4.



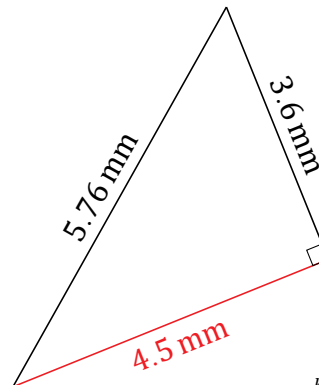
$$18.8^2 + b^2 = 24.69^2$$
$$b = \sqrt{609.5961 - 353.44}$$
$$b = 16 \text{ m}$$

5.



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

6.



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