

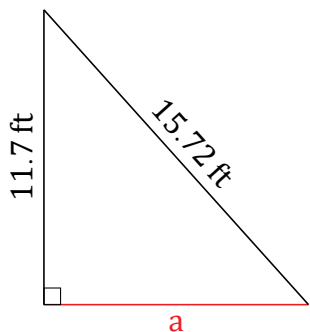
Pythagorean Theorem (G)

Name: _____

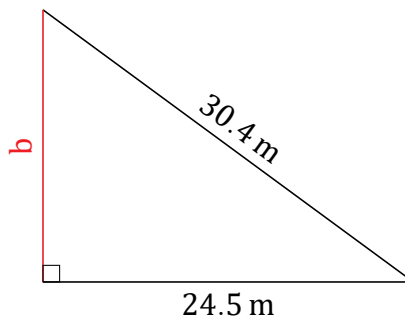
Date: _____

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

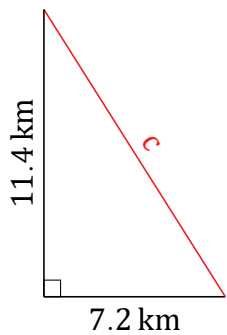
1.



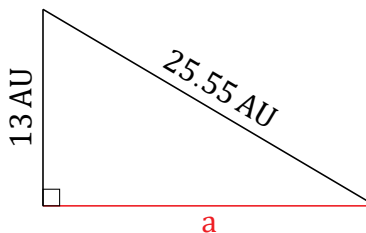
2.



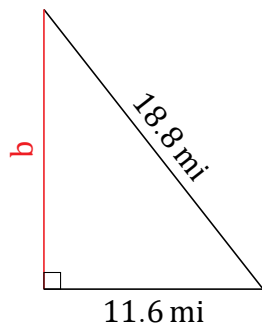
3.



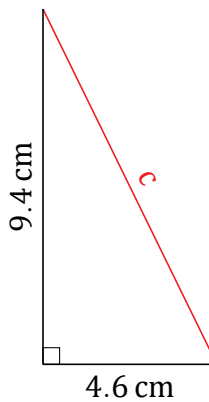
4.



5.



6.



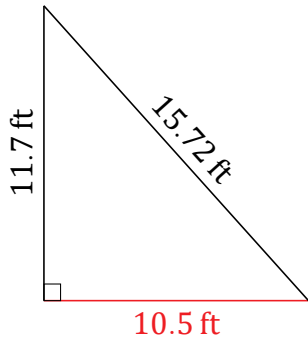
Pythagorean Theorem (G) Answers

Name: _____

Date: _____

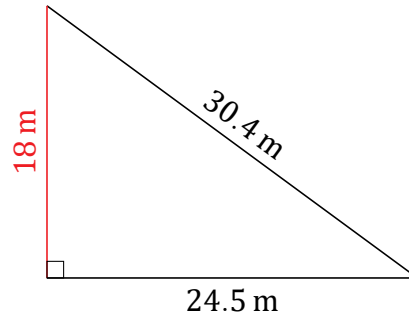
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



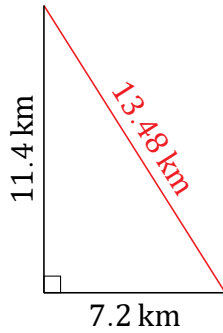
$$a^2 + 11.7^2 = 15.72^2$$
$$a = \sqrt{247.1184 - 136.89}$$
$$a = 10.5 \text{ ft}$$

2.



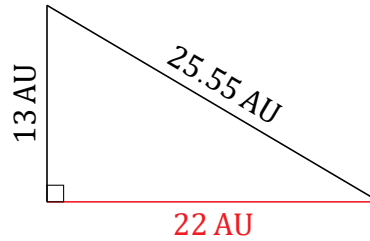
$$24.5^2 + b^2 = 30.4^2$$
$$b = \sqrt{924.16 - 600.25}$$
$$b = 18 \text{ m}$$

3.



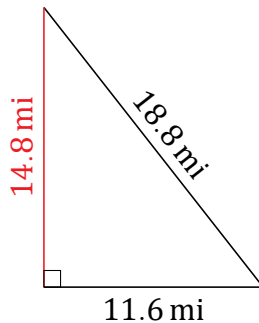
$$7.2^2 + 11.4^2 = c^2$$
$$c = \sqrt{51.84 + 129.96}$$
$$c = 13.48 \text{ km}$$

4.



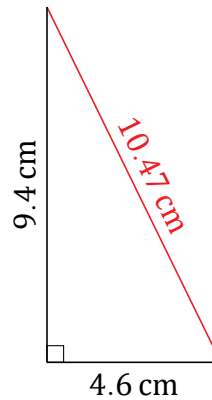
$$a^2 + 13^2 = 25.55^2$$
$$a = \sqrt{652.8025 - 169}$$
$$a = 22 \text{ AU}$$

5.



$$11.6^2 + b^2 = 18.8^2$$
$$b = \sqrt{353.44 - 134.56}$$
$$b = 14.8 \text{ mi}$$

6.



$$4.6^2 + 9.4^2 = c^2$$
$$c = \sqrt{21.16 + 88.36}$$
$$c = 10.47 \text{ cm}$$