

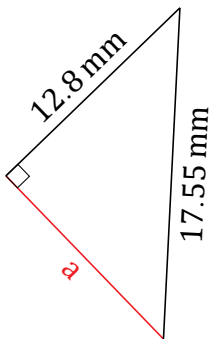
Pythagorean Theorem (E)

Name: _____

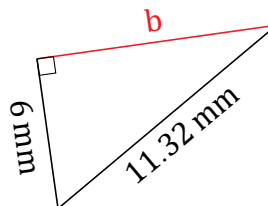
Date: _____

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

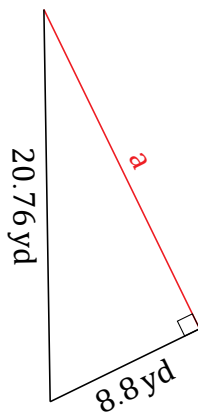
1.



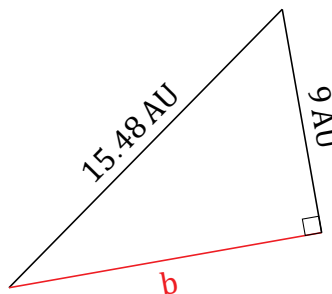
2.



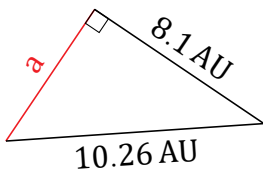
3.



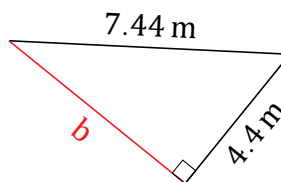
4.



5.



6.



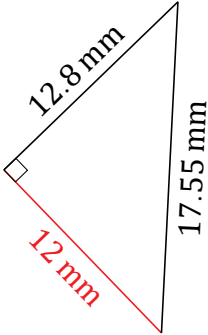
Pythagorean Theorem (E) Answers

Name: _____

Date: _____

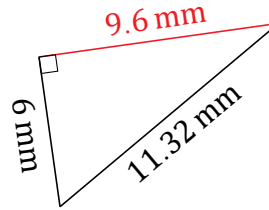
Calculate the missing side measurement using $a^2 + b^2 = c^2$.

1.



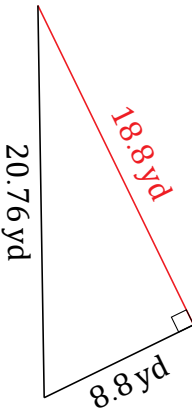
$$a^2 + 12.8^2 = 17.55^2$$
$$a = \sqrt{308.0025 - 163.84}$$
$$a = 12 \text{ mm}$$

2.



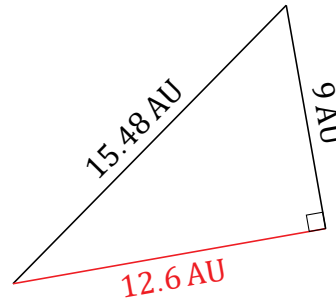
$$6^2 + b^2 = 11.32^2$$
$$b = \sqrt{128.1424 - 36}$$
$$b = 9.6 \text{ mm}$$

3.



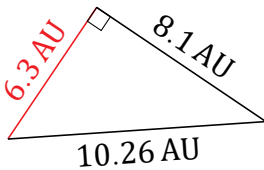
$$a^2 + 8.8^2 = 20.76^2$$
$$a = \sqrt{430.9776 - 77.44}$$
$$a = 18.8 \text{ yd}$$

4.



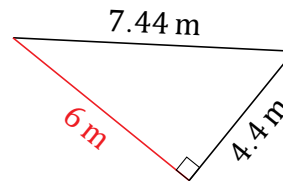
$$9^2 + b^2 = 15.48^2$$
$$b = \sqrt{239.6304 - 81}$$
$$b = 12.6 \text{ AU}$$

5.



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

6.



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