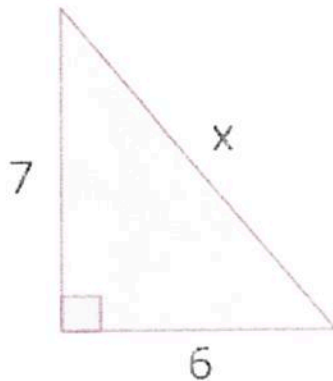


Instructions: Show all work. Partial credit can only be given where work is shown. Be sure to answer all parts of each question. You may not use a calculator on this quiz.

1. Solve for the missing side using the Pythagorean Theorem.

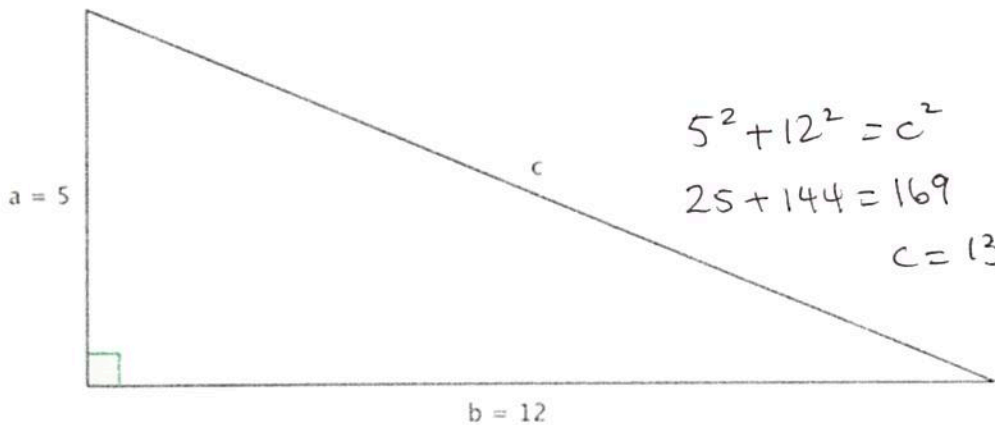


$$6^2 + 7^2 = c^2$$

$$36 + 49 = 85$$

$$c = \sqrt{85}$$

a.



$$5^2 + 12^2 = c^2$$

$$25 + 144 = 169$$

$$c = 13$$

b.

2. A Pythagorean Triple is a set of three integers that satisfies the equation $a^2 + b^2 = c^2$. List three examples of Pythagorean Triples and show that they satisfy the equation.

3-4-5

$$3^2 + 4^2 = 5^2$$

$$9 + 16 = 25$$

5-12-13

See above

8-15-17

$$8^2 + 15^2 = 17^2$$

$$64 + 225 = 289$$

or any multiples of these
there are other options also