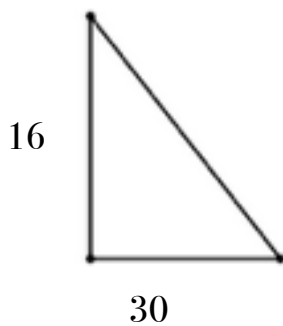


Geometry Lesson- The Pythagorean Theorem

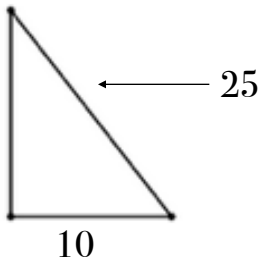
The Pythagorean Theorem:

Ex 1- A right triangle has legs of length 16 and 30. Find the length of the hypotenuse.



Source: <https://commons.wikimedia.org/wiki/File:Triangle-right.svg>

Ex 2- A right triangle has a hypotenuse of length 25 and a leg of length 10. Find the length of the other leg.



Ex 3- Simplify each square root using prime factorization trees.

(a) $\sqrt{8}$

(b) $\sqrt{75}$

(c) $\sqrt{108}$

Ex 4- Find the value of x in each triangle. Leave your answer in simplest radical form.

