

## Scratch Formulas

The Right-Angled Triangle Theorem is:

$$c^2 = a^2 + b^2$$

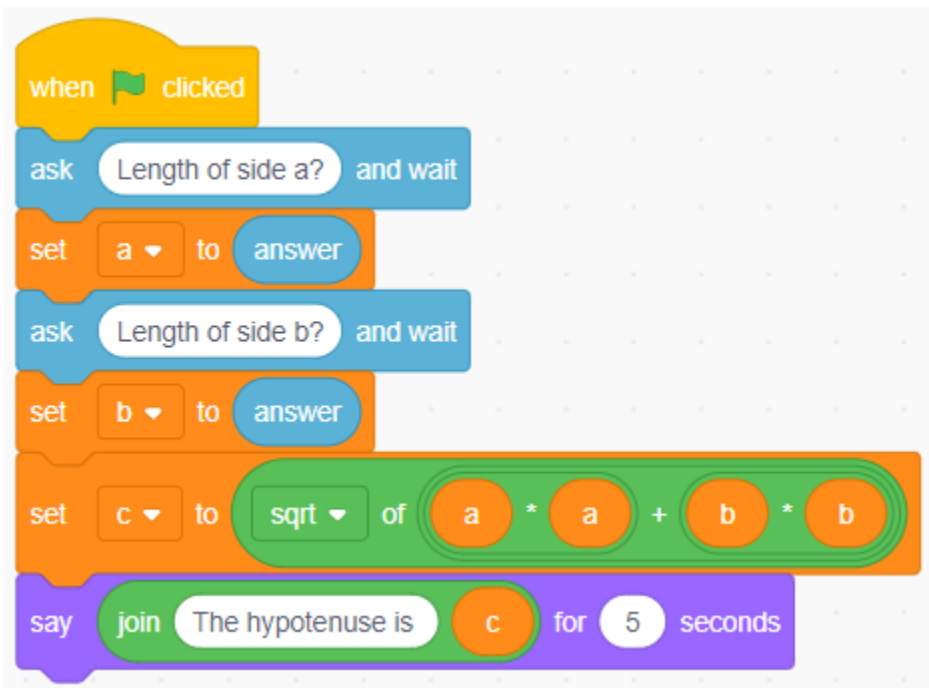
To solve for c (hypotenuse), we would write:

$$c = \sqrt{a^2 + b^2}$$

This would be coded like this:



The entire program looks like this:



Do not make the above program again.

Your job is to write a program that finds the answers to the following formulas:

Formula Name	Inputs Needed	Formula
1. Supplementary Angle Theorem	Get the first angle	Second Angle = $180 - \text{First Angle}$
2. Right-Angled Triangle Theorem – solve for a side.	Get the hypotenuse (c) Get the first side (a)	$b = \sqrt{c^2 - a^2}$
3. Area of a circle	Get the radius (r)	$A = \pi r^2$