

Scratch Formulas

The Right-Angled Triangle Theorem is:

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

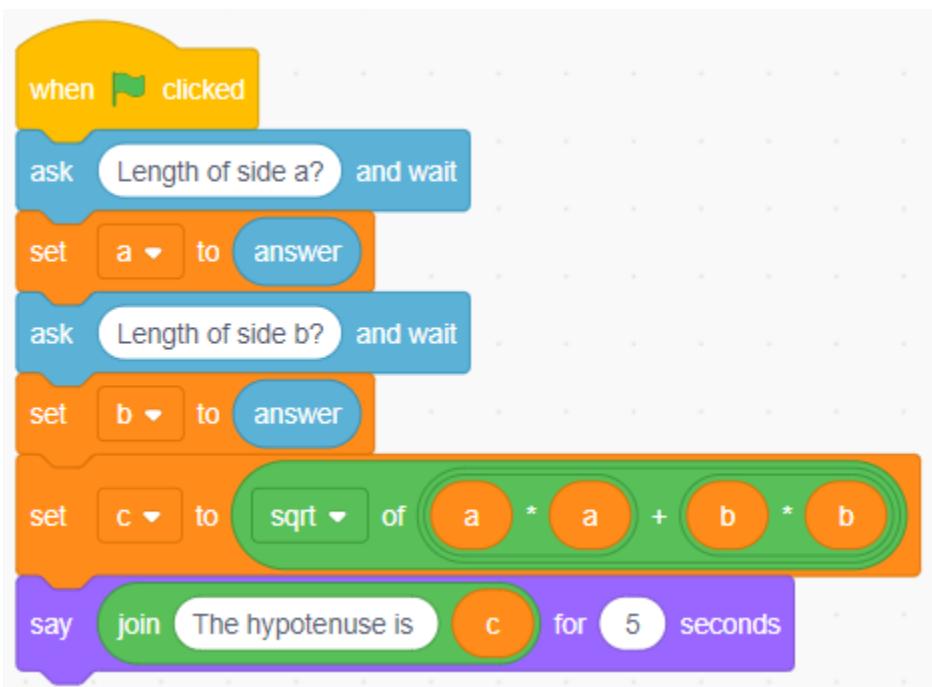
To solve for c (hypotenuse), we would write:

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

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 = $180 -$ 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) | $A = \pi r^2$ |