Right Triangle Trigonometry

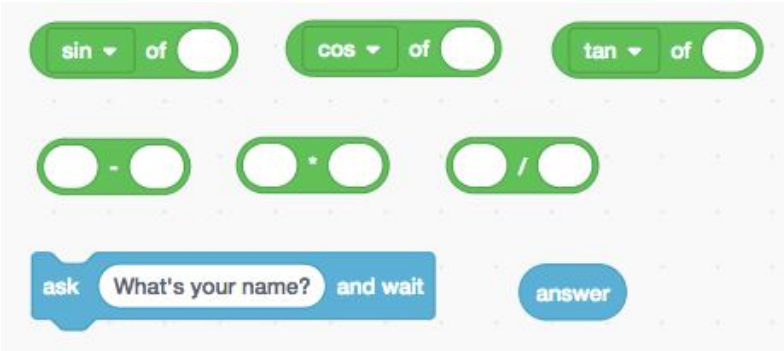
Project Goal:

Students will create a program that asks for two pieces of a right triangle, the program will solve for the rest of the angles and side lengths.

Standard: CCSS.MATH.CONTENT.HSG.SRT.C.8

Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

Blocks:



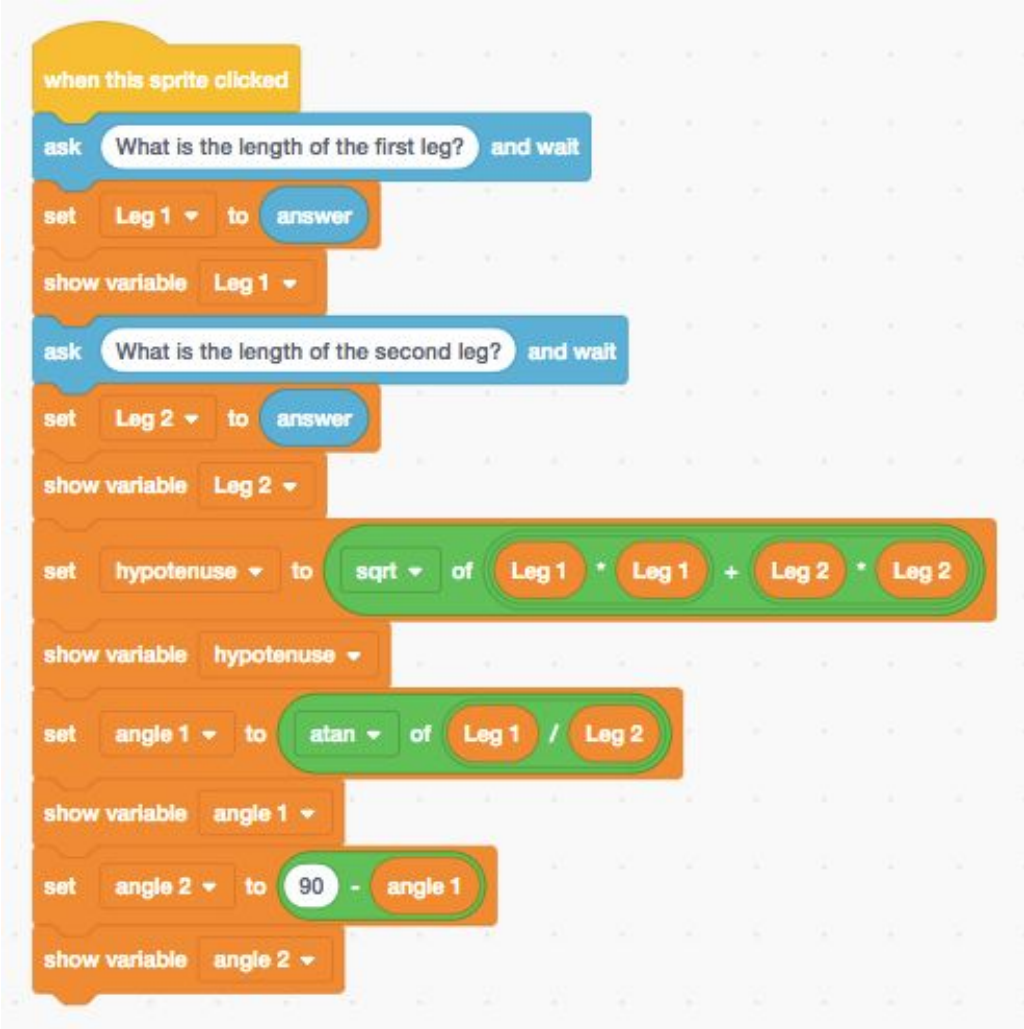
Student Handout: Right Triangle Trigonometry Student Guide

Teacher Video: Right Triangle Trigonometry Teacher Video Guide

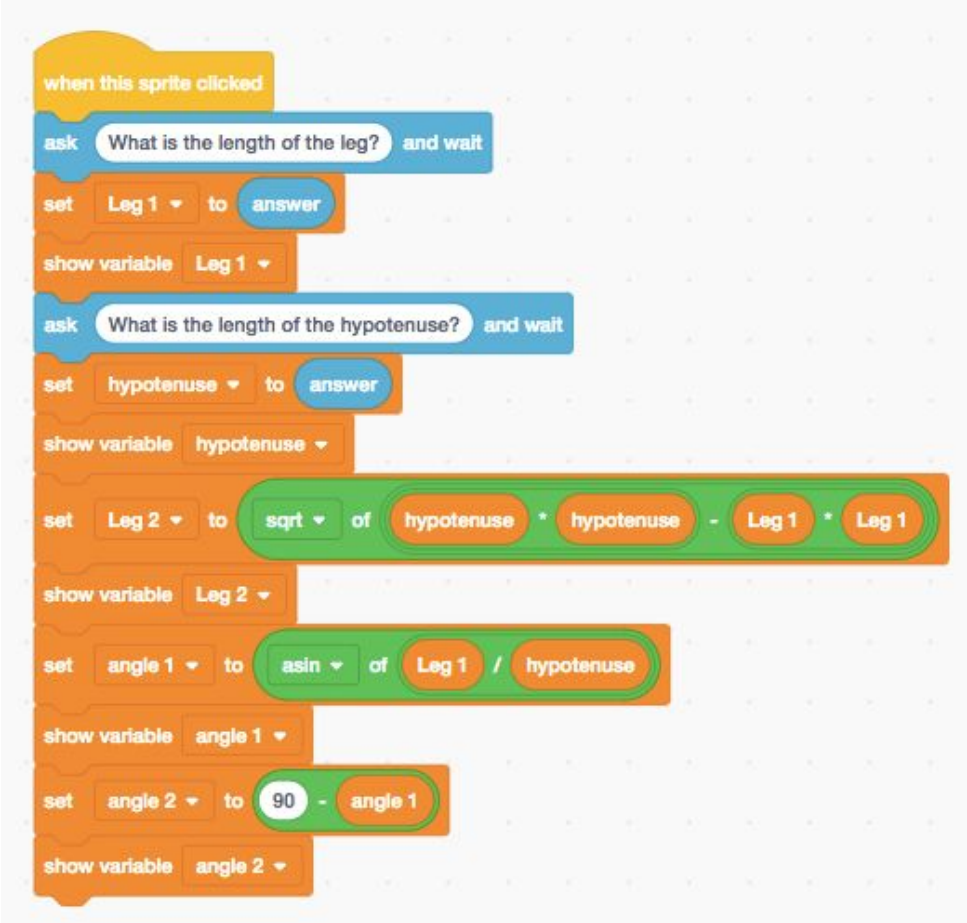
Solution:

Under the Right Triangle Sprite:

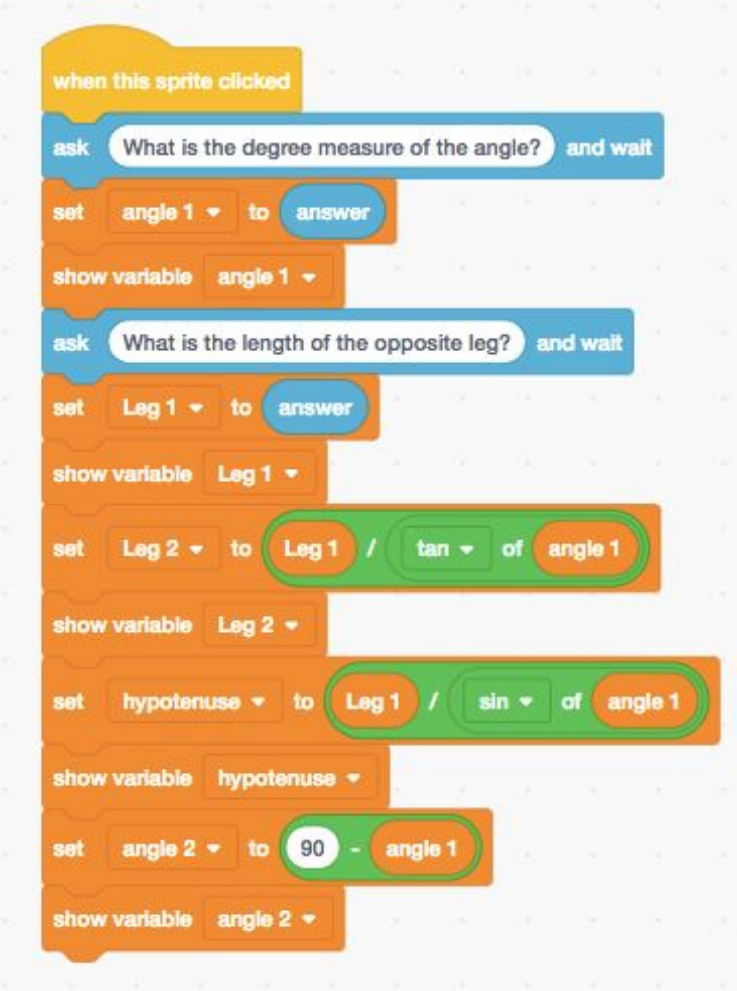
Under the Two Legs Sprite:



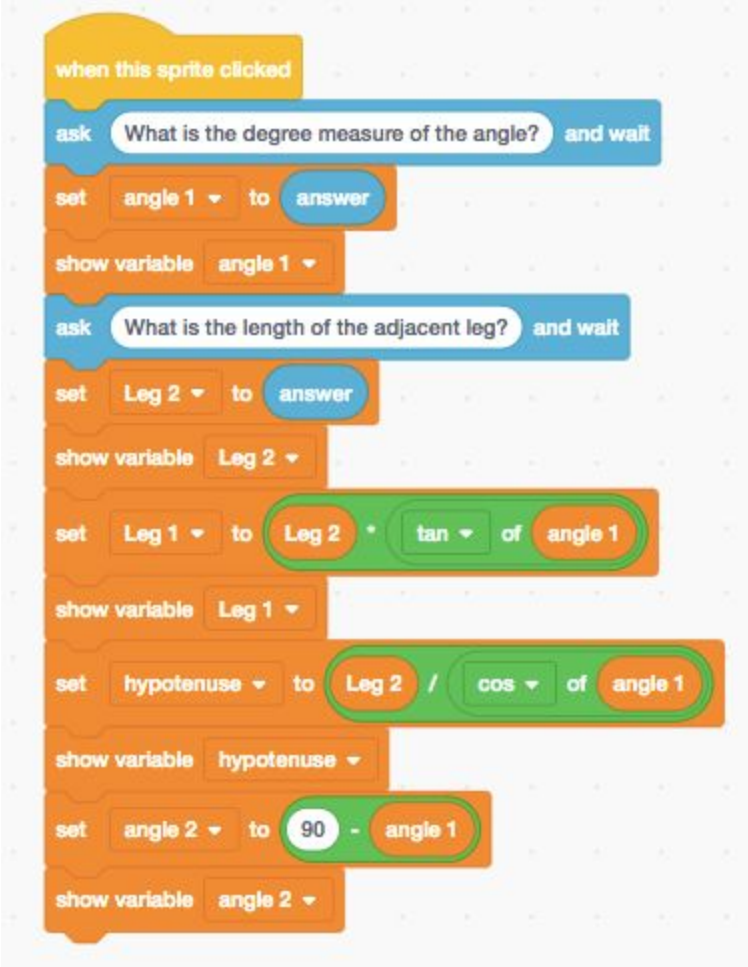
Under the One Leg and Hypotenuse Sprite:



Under the Angle and Opposite Side Sprite:



Under the Angle and Adjacent Side Sprite:



Under the Angle and Hypotenuse Sprite: