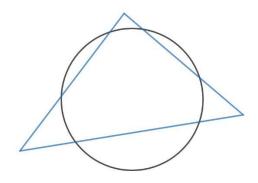**Term Project**
Option II: A Geometry Problem Solver Project Supplement
Problem Set C

Please use Python 3.5 or above as your programming language for the solver program.

Assigned Problem:
1. A triangle and a circle have six intersection points:
There are two intersections on each one of the three sides of the triangle.

You are encouraged to draw your own diagram according to the description. The diagram above are only for your reference, you need to consider all cases as long as they meet the description. Please also consider boundary cases.

Extra Credits:
Instead of creating solvers for the above problem, design a solver that can solve any one circle and one triangle problems.

Resources:
Learn Python in 60 Minutes from Java
How to solve a triangle: You can start here.
Review on Circles: In case you need a review on circles.
Law of Sines--Ambiguous Case: A special case.

[Single Triangle Calculator](): An online demo of single triangle problem solver.
[SymPy Geometry Module](): SymPy is a Python library, you may find its geometry module helpful.