

# Explorations in Problem Solving – Geometry

## Introduction

Welcome to "Explorations in Problem Solving - GEOMETRY". If you would like to learn more about the nature of mathematical problem solving, we welcome you to this tutorial. We seek to explore the nature of math problem solving, particularly as it applies to geometry and geometric figures. We will go beyond the standard textbook teaching of geometry and learn different ways to analyze and think about new problems. We will learn to approach new problems asking questions such as what are the main features of the problem, what do we already know that we can use to solve the problem, and what additional facts or theorems would help us find a solution.

## Extracting the Files, Running the Program

- Extract the contents of Geometry.zip by right-clicking the file and selecting "Extract All". We suggest you extract the contents of the file to a new folder named "GEOMETRY".
- To begin the program, open the "GEOMETRY" folder and double-click GEOSTART.exe. A menu will appear and we suggest you start by beginning with the first lesson - "1 – Description of Geometry Problem Solving". The lesson explains keyboard shortcuts and gives an overview of the course.