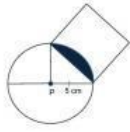


# Practical Geometry

Part Two



- 1 A SELF-STUDY GUIDE
- 2 PRACTICE PROBLEMS
- 3 SELF-TESTS
- 4 REVIEW TEST
- 5 FULL ANSWER KEY

Kwang S. Ko, Ph.D. & Alexander H. Ko

# Practical Geometry (Part Two)

Dr Kwang S Ko



This is a study guide written primarily for middle and high schoolers in order for them to learn relevant math concepts at their level. There is an introduction before each chapter that describes what will be covered. Chapter 7 discusses similarity, which explains the ratio between two numbers, discern proportions and their properties, identifies the properties of similar polygons, and proves that two triangles can be similar with different postulates and theorems, as well as learning how to identify dilations and its properties. Chapter 8 covers right triangles, which demonstrates how to solve problems involving similar triangles formed by the altitude that is perpendicular to the hypotenuse, finding the lengths of the sides of a triangle with the Pythagorean Theorem, using side lengths to classify triangles and angles measures and finding their length in special right triangles, and to find the magnitude and direction of a vector. Chapter 9 deals with circles that discuss segments and lines related to circles, use properties of tangents, arcs, and chords of a circle as well as the properties of inscribed angles and inscribed polygons of a circle, and finding and graphing the equation of a circle. Chapter 10 teaches areas of polygons and circles, which can describe the angle measures of polygons, the areas of regular polygons as well as the perimeters and areas of similar figures, the circumference and arc length of circles, and the areas of circles and their sectors. Each concept has a step-by-step explanation on how to approach the problems. Afterwards, there is a self- test that assesses the knowledge of the student, and at the end of the book, there is a review test that examines the students knowledge of all the previous chapters.

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