

# Study Guide

for Chapter 5 Test

You should be able to complete the following conjectures and problems from each section:

## 5.1

**Quadrilateral Sum Conjecture** The sum of the measures of the four angles of any quadrilateral is  $\underline{?}$ .

**Pentagon Sum Conjecture** The sum of the measures of the five angles of any pentagon is  $\underline{?}$ .

**Polygon Sum Conjecture** The sum of the measures of the  $n$  interior angles of an  $n$ -gon is  $\underline{?}$ .

Page 257, Exercises 3-7

## 5.2

**Exterior Angle Sum Conjecture** For any polygon, the sum of the measures of a set of exterior angles is  $\underline{?}$ .

Page 262, Exercises 4-8

## 5.3

**Kite Angles Conjecture** The  $\underline{?}$  angles of a kite are  $\underline{?}$ .

**Kite Diagonals Conjecture** The diagonals of a kite are  $\underline{?}$ .

**Kite Diagonal Bisector Conjecture** The diagonal connecting the vertex angles of a kite is the  $\underline{?}$  of the other diagonal.

**Kite Angle Bisector Conjecture** The  $\underline{?}$  angles of a kite are  $\underline{?}$  by a  $\underline{?}$ .

**Trapezoid Consecutive Angles Conjecture** The consecutive angles between the bases of a trapezoid are  $\underline{?}$ .

**Isosceles Trapezoid Conjecture** The base angles of an isosceles trapezoid are  $\underline{?}$ .

**Isosceles Trapezoid Diagonals Conjecture** The diagonals of an isosceles trapezoid are  $\underline{?}$ .

Page 269, Exercises 1-6

## 5.5

**Parallelogram Opposite Angles Conjecture** The opposite angles of a parallelogram are  $\underline{?}$ .

**Parallelogram Consecutive Angles Conjecture** The consecutive angles of a parallelogram are  $\underline{?}$ .

**Parallelogram Opposite Sides Conjecture** The opposite sides of a parallelogram are  $\underline{?}$ .

**Parallelogram Diagonals Conjecture** The diagonals of a parallelogram  $\underline{?}$ .

Page 281, Exercises 1-6

## 5.6

**Rectangle Diagonals Conjecture** The diagonals of a rectangle are  $\underline{?}$  and  $\underline{?}$ .

Page 290, Exercises 1-12