# Geometry Ch. 11 Notes    Area

Name_____

**11.1:**    **Areas of Triangles and Parallelograms**

| Shape | Formula | Example |
|---|---|---|
| **Triangle** | | |
| **Parallelogram** | | |

**Area Congruence Postulate**

**Area Addition Postulate**

**11.2:**    **Areas of Trapezoids, Rhombuses, and Kites**

**height of a trapezoid:**                **diagonal:**

| Shape | Area Formula | Example |
|---|---|---|
| **Trapezoid** | | |
| **Rhombus** | | |
| **Kite** | | |

**11.3:** <u>**Perimeter and Area of Similar Figures**</u>

**Areas of Similar Polygons Theorem: area ratio of two similar polygons = (side ratio)$^2$**

**11.6:** <u>**Finding Areas of Regular Polygons and Hexagons**</u>

**Regular Polygon:**                           **Regular Hexagon:**

**1.  angle**                           **1.  height ($\sqrt{\phantom{x}}$ form)**

**2.  height**                           **2.  triangle area ($\sqrt{\phantom{x}}$ form)**

**3.   triangle area**                           **3.  total area ($\sqrt{\phantom{x}}$ form)**

**4.  total area**