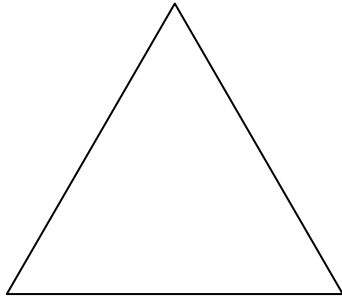


## POLYGONS

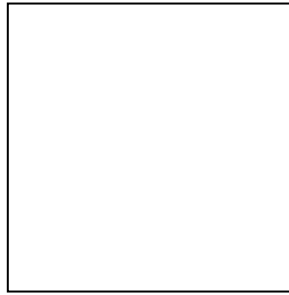
1. A **polygon** is a simple closed plane curve that consists of line segments. In a polygon, each line segment is called a **side** of the polygon. A common endpoint of two line segments is called a **vertex** of the polygon.
2. A **regular polygon** is a polygon in which all of the sides have equal measures, and all of the angles have equal measures.
3. A **triangle** is a polygon with three sides, and three angles.
  - a) An **acute triangle** is a triangle that has three acute angles
  - b) An **equiangular/equilateral triangle** is a triangle that has three angles, and sides equal in measure
  - c) A **right triangle** is a triangle that has one right angle
  - d) An **obtuse triangle** is a triangle that has one obtuse angle
  - e) An **isosceles triangle** is a triangle with two sides in equal length, and two angles of equal measure
  - f) A **scalene triangle** is a triangle that has no sides equal in length, and no angles are equal in measure
4. A **quadrilateral** is a polygon that has four sides
  - a) A **trapezoid** is a quadrilateral in which two and only two opposite sides are parallel. The parallel sides are called the **bases** of the trapezoid
  - b) A **parallelogram** is a quadrilateral in which both pairs of opposite sides are parallel
  - c) A **rectangle** is a parallelogram in which all four angles are right angles
  - d) A **rhombus** is a parallelogram in which all sides are of equal length
  - e) A **square** is a rectangle in which all sides are of equal length
5. A **pentagon** is a polygon that has five sides
6. A **hexagon** is a polygon that has six sides
7. A **heptagon** is a polygon that has seven sides
8. An **octagon** is a polygon that has eight sides
9. A **nonagon** is a polygon that has nine sides
10. A **decagon** is a polygon that has ten sides

The regular polygons that you are responsible for knowing how to draw are as follows:

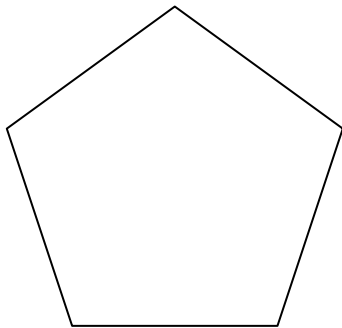
1. A regular triangle



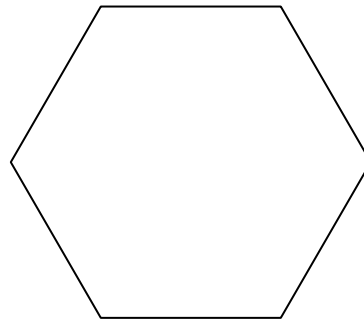
2. A regular quadrilateral



3. A regular pentagon



4. A regular hexagon



5. A regular octagon

