

Def. Polygon

A polygon is a closed figure formed by 3 or more coplanar segments such that:

- 1. The sides that share a common endpt. are noncollinear.**
- 2. Each side intersects exactly 2 other sides, but only at the endpts.**

Def. Diagonal

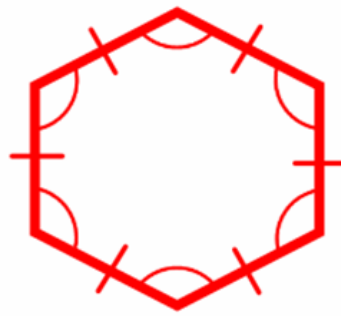
A segment that joins nonadj. vertices of a polygon.

Th. 6-1 Int. $\angle$ Sum Th.

If a convex polygon has n number of sides and S is the sum of the measures of interior $\angle$'s then $S = 180(n - 2)$.

Def. **Regular Polygon**

A convex polygon with all sides and all $\angle$'s $\cong$.



Th. 6-2 Ext. $\angle$ Sum Th.

If a polygon is convex, then the sum of the measures of the exterior $\angle$'s, 1 at each vertex, is 360° .