Parts of an Angle

- Vertex: The point where the 2 sides intersect
- Side: Ray

Classify an Angle:
- Straight: $180^\circ$
- Right: $90^\circ$
- Obtuse: Between $90^\circ$ and $180^\circ$
- Acute: Between $0^\circ$ and $90^\circ$

Congruent Angles:
- Angles are $\cong$ iff they have equal measures

Adjacent Angles:
- Angles are adjacent iff they have the same vertex and ray.

Perpendicular Lines:
- Lines are $\perp$ iff they intersect to form right angles.

Parallel Lines:
- Lines are $\parallel$ iff they are coplanar and never intersect.

How to Classify an Angle:
- Rays are $\perp$

Complementary Angles:
- $90^\circ$
- Angles are complementary iff their measures add to $90^\circ$

Supplementary Angles:
- $180^\circ$
- Angles are supplementary iff their measures add to $180^\circ$

Angle Bisector:
- A line, ray, or segment bisects an angle iff the angle is split into 2 $\cong$ angles.
- $\overline{FH}$ bisects $\angle EFG$
- $\angle EFH \cong \angle HFG$