Geometry – Lines and Angles

Two lines are **parallel** in a plane (2-dimensional space) if they never cross (like railroad tracks!)

Two lines are **perpendicular** in a plane if they cross in 90° angles.

Two angles are **complementary** if their measures add to be 90°.

Two angles are **supplementary** if their measures add to be 180°.

**Congruent**: coinciding exactly when superimposed. (American Heritage Dictionary, 4th ed.)

**Acute Angle**: An angle measuring between 0° and 90°. (“acute” means “sharp”.)

**Right Angle**: An angle measuring exactly 90°. (A “square corner”)

**Obtuse Angle**: An angle measuring between 90° and 180°. (“obtuse” means “blunt”)

**Straight Angle**: An angle measuring exactly 180°. (A line!)

Vertical Angles - ∠1 and ∠4, ∠2 and ∠5, ∠3 and ∠6.

Vertical angles are “backed up” to each other. Notice, they have the same measure. (Congruent)