

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° .

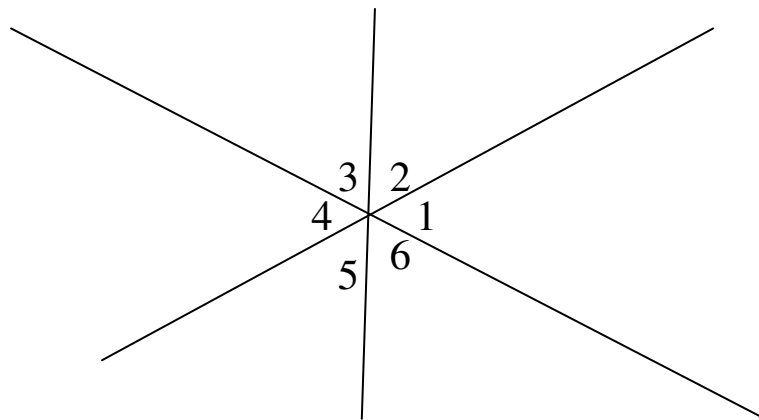
Congruent: coinciding exactly when superimposed. (American Heritage Dictionary, 4th ed.)

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 - $\angle 1$ and $\angle 4$, $\angle 2$ and $\angle 5$, $\angle 3$ and $\angle 6$.

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