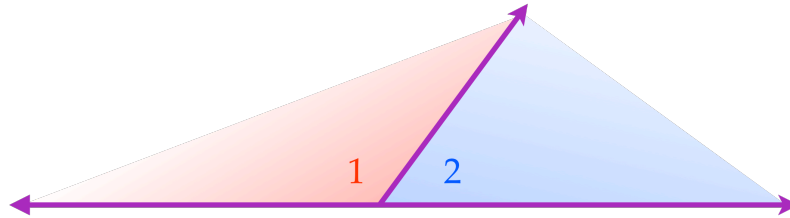


Linear Pair Theorem:

If two angles form a **Linear Pair**,
then those angles are **supplementary**.

$\angle 1$ and $\angle 2$ form a linear pair



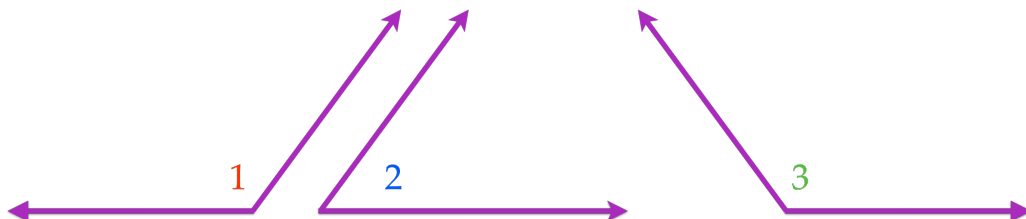
$\angle 1$ and $\angle 2$ are supplementary

Supplement Congruent Theorem:

If two angles are **supplementary** to the same angle,
then those two angles are congruent.

$\angle 1$ and $\angle 2$ are **supplementary**

$\angle 2$ and $\angle 3$ are **supplementary**



$\angle 1$ and $\angle 3$ are both **supplements** of $\angle 2$

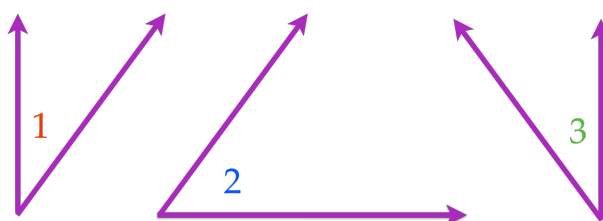
$\angle 1 \cong \angle 3$

Complement Congruent Theorem:

If two angles are **complementary** to the same angle,
then those two angles are congruent.

$\angle 1$ and $\angle 2$ are **complementary**

$\angle 2$ and $\angle 3$ are **complementary**



$\angle 1$ and $\angle 3$ are both **complements** of $\angle 2$

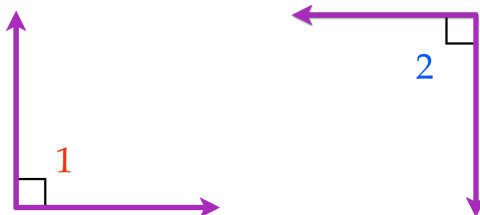
$$\angle 1 \cong \angle 3$$

Right Angle Theorem:

If two angles are **right** angles,
then those two angles are congruent.

$\angle 1$ is a **right** angle

$\angle 2$ is a **right** angle

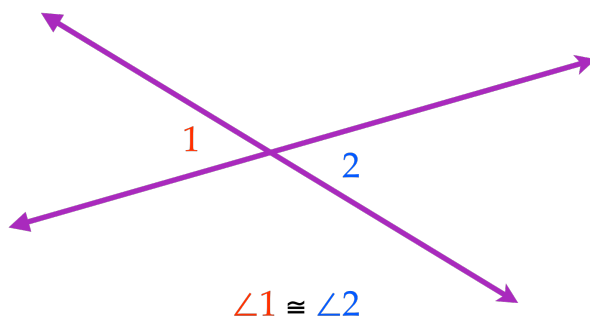


$$\angle 1 \cong \angle 2$$

Vertical Angle Theorem:

If two angles are **vertical** angles,
then those two angles are congruent.

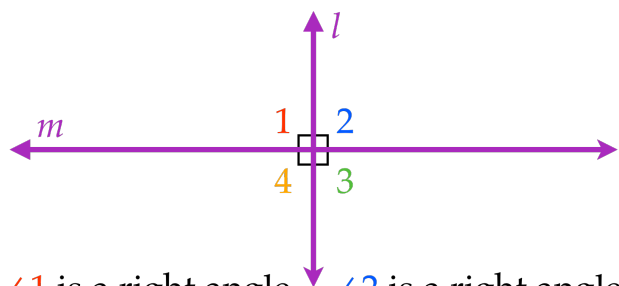
$\angle 1$ and $\angle 2$ are **vertical** angles



Perpendicular Lines Theorem:

If two line are **perpendicular** to each other,
then those two lines intersect to form four right angles.

Line $l \perp$ Line m



$\angle 1$ is a right angle $\angle 2$ is a right angle
 $\angle 4$ is a right angle $\angle 3$ is a right angle