Given Parallel Lines and a Transversal

Alternate Interior

opposite side of transversal
Between parallel lines

$\angle 2 \& \angle 8$ $\angle 3 \& \angle 5$

Alternate interior angles are $\cong$.

Corresponding Angles

$\angle 1, \angle 5$ $\angle 2, \angle 6$

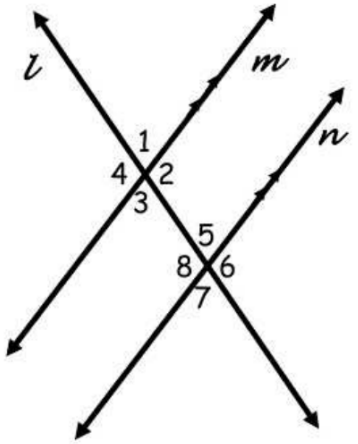
$\angle 3, \angle 7$ $\angle 4, \angle 8$

Corresponding angles are $\cong$.

Alternate Exterior

$\angle 1 \& \angle 7$ $\angle 4 \& \angle 6$

Alternate exterior angles are $\cong$.



Same Side Interior or Consecutive Interior

$\angle 2 \& \angle 5$ $\angle 3 \& \angle 8$

Same side interior or consecutive interior angles are Supplementary

Same Side Exterior or Consecutive Exterior

$\angle 4 \& \angle 7$, $\angle 1 \& \angle 6$

Same side exterior or consecutive exterior angles are Supplementary.

Vertical Angles

$\angle 1 \& \angle 3$, $\angle 2 \& \angle 4$, $\angle 5 \& \angle 7$, $\angle 8, \angle 6$

Vertical angles are $\cong$.

Linear Pair

Linear pair of angles are Supplementary