

Given Parallel Lines and a Transversal

$m \parallel n$

Alternate Interior

$\angle 2 + \angle 8$
 $\angle 3 + \angle 5$

Alternate interior angles are \cong .

Corresponding Angles

$\angle 3 + \angle 7$ $\angle 4 + \angle 8$
 $\angle 2 + \angle 6$ $\angle 1 + \angle 5$

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

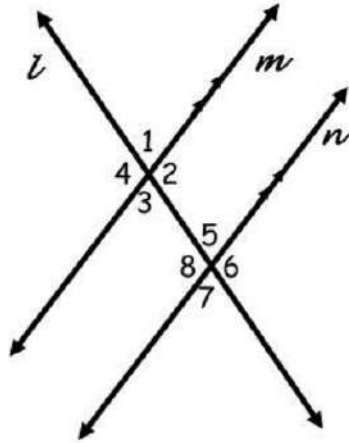
$\angle 2 + \angle 5$
 $\angle 3 + \angle 8$

Same side interior or consecutive interior angles are Supplementary.

Same Side Exterior or Consecutive Exterior

$\angle 1 + \angle 6$ $\angle 4 + \angle 7$

Same side exterior or consecutive exterior angles are Supplementary.



$\angle 1 + \angle 3$ Vertical Angles

$\angle 2 + \angle 4$ $\angle 5 + \angle 7$
 $\angle 8 + \angle 6$

Vertical angles are \cong .

$\angle 1 + \angle 4$ Linear Pair $\angle 5 + \angle 6$

$\angle 1 + \angle 2$ $\angle 3 + \angle 4$ $\angle 6 + \angle 7$
 $\angle 2 + \angle 3$ $\angle 5 + \angle 8$ $\angle 7 + \angle 8$

Linear pair of angles are Supp.