

When Two Parallel Lines Are Cut By a Transversal, What Angle Pair Relationships Exist?

Corresponding Angles

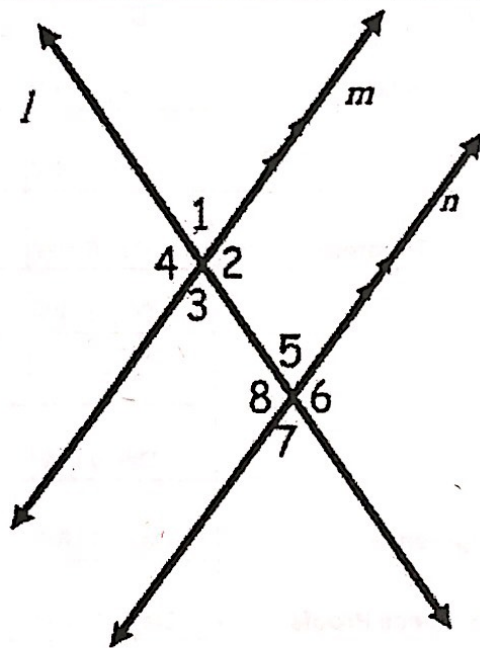
1, 5 4, 8
 2, 6 3, 7

Corresponding angles are \cong (congruent)

Alternate Interior

3, 5
 2, 8

Alternate interior angles are \cong .



Alternate Exterior

1, 7
 4, 6

Alternate exterior angles are \cong .

Same Side Interior or Consecutive Interior

2, 5 3, 8

Same side interior or consecutive interior angles are supplementary.

Same Side Exterior or Consecutive Exterior

1, 6 4, 7

Same side exterior or consecutive exterior angles are supplementary.

Vertical Pair

1, 3 2, 4 5, 7 6, 8

Vertical angles are \cong .

Linear Pair

1, 2 2, 3 3, 4 4, 1 5, 6 6, 7 7, 8

Linear pair of angles are Supp. 8, 5

Congruent: set them equal
 supplementary: sum of 180