Chapter 5 Formula Sheet

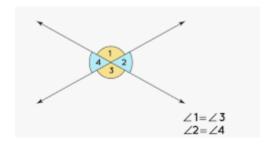
Complementary angles add up to 90°

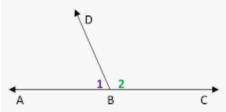
Supplementary angles add up to 180°

Bisecting an angle cuts it into two equal smaller angles.

Vertically opposite angles are equal:

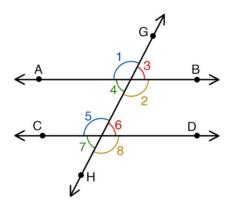
Linear pairs of angles are supplementary:





$$\angle 1 + \angle 2 = 180^{\circ}$$

When parallel lines are intersected by a transversal, corresponding angles are equal, interior angles on the same side of the transversal are supplementary, alternate interior angles are equal and alternate exterior angles are equal.



Corresponding

nding Alternate interior

Alternate exterior

$$\angle 1 = \angle 8$$

$$\angle 2 = \angle 5$$

$$\angle 3 = \angle 7$$

∠3 = ∠6

$$\angle 4 = \angle 7$$

Interior angles on the same side of the transversal

$$\angle 4 + \angle 5 = 180^{\circ}$$

$$\angle 2 + \angle 6 = 180^{\circ}$$