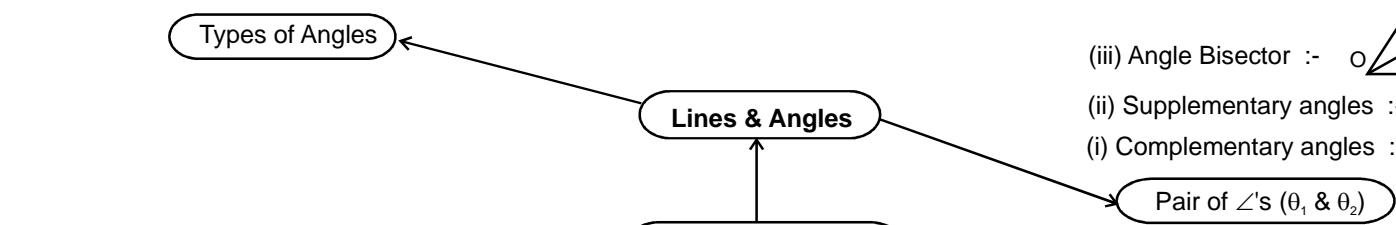


Lines & Angles

- (vii) Zero \angle :- $\theta = 0^\circ$
- (vi) Complete \angle :- $\theta = 360^\circ$
- (v) Reflex \angle :- $180^\circ < \theta < 360^\circ$
- (iv) Straight \angle :- $\theta = 180^\circ$
- (iii) Obtuse \angle :- $90^\circ < \theta < 180^\circ$
- (ii) Acute \angle :- $0 < \theta < 90^\circ$
- (i) Right \angle :- $\theta = 90^\circ$



- Angles made by Transversal**
-
- (i) Corresponding angles
($\angle 1 & \angle 5$, $\angle 2 & \angle 6$, $\angle 3 & \angle 7$, $\angle 4 & \angle 8$)
- (ii) Alternate interior angles
($\angle 1 & \angle 7$, $\angle 2 & \angle 8$)
- (iii) Co-interior angles
($\angle 1 + \angle 8 = 180^\circ = \angle 2 + \angle 7$)
- (iv) Alternate exterior angle
($\angle 4 & \angle 6$, $\angle 3 & \angle 5$)

- (vi) Vertically opp. angles :-
-
- $\angle AOC = \angle BOD$
 $\angle AOD = \angle BOC$
- (v) Linear Pair :- $\theta_1 + \theta_2 = 180^\circ$ (θ_1 & θ_2 are adjacent)
- (iv) Adjacent angles :-
- (a) they have the same vertex,
 - (b) they have a common arm,
 - (c) non common arms are on either side of the common arm.
- (iii) Angle Bisector :-
-
- $\angle AOX = \angle BOX$
- (ii) Supplementary angles :- $\theta_1 + \theta_2 = 180^\circ$
- (i) Complementary angles :- $\theta_1 + \theta_2 = 90^\circ$
- Properties**
- (i) Sum of interior angles of Δ = 180°
 - (ii) $\angle BOC = 90 + \frac{1}{2} \angle A$
 - (iii) Ext. \angle = Sum of 2 interior opp. \angle 's.
 - (iii) $\angle BOC = 90 - \frac{1}{2} \angle A$