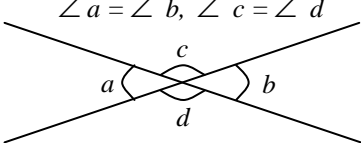
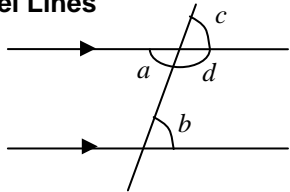
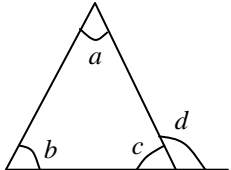
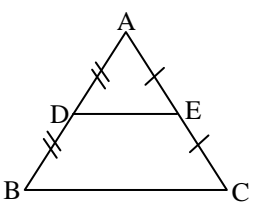
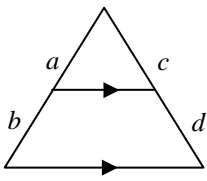


GEOMETRIC FORMULAE FOR PLANE GEOMETRY

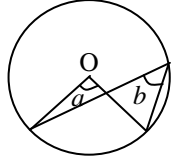
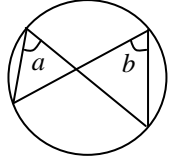
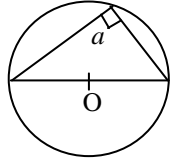
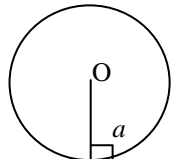
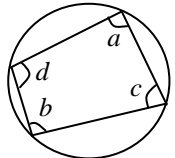
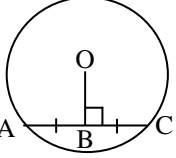
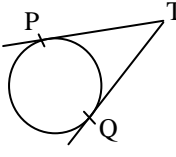
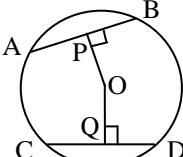
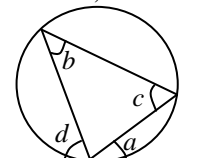
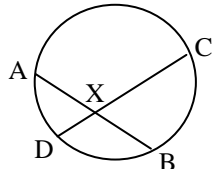
LINES

<p>Vertically Opposite Angles</p> $\angle a = \angle b, \angle c = \angle d$ 	<p>Parallel Lines</p> $\angle a = \angle b \text{ (alt. } \angle \text{ s)}$ $\angle c = \angle d \text{ (corresp. } \angle \text{ s)}$ $\angle b + \angle d = 180^\circ \text{ (int. } \angle \text{ s)}$ 
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TRIANGLES

<p>Interior Angles</p> $\angle a + \angle b + \angle c = 180^\circ$ $\angle a + \angle b = \angle d \text{ (ext. } \angle \text{ of } \Delta)$ 	<p>Midpoint Theorem</p> $DE \parallel BC, DE = \frac{1}{2} BC$ 	<p>Intercept Theorem</p> $\frac{a}{b} = \frac{c}{d}$ 
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CIRCLES

<p>\angle at Centre</p> $\angle a = 2\angle b$ 	<p>\angle s in Same Segment</p> $\angle a = \angle b$ 	<p>\angle in Semi-Circle</p> $\angle a = 90^\circ$ 	<p>Radius \perp Tangent</p> $\angle a = 90^\circ$ 
<p>Opp. \angle s of Cyclic Quadrilateral</p> $\angle a + \angle b = 180^\circ$ $\angle c + \angle d = 180^\circ$ 	<p>\perp bisector of chord passes through centre</p> $OB \perp AC, AB = BC$ 	<p>Tangents from external point</p> $TP = TQ$ 	<p>Equal chords equidistant from centre</p> $AB = CD \leftrightarrow OP = OQ$ 
<p>Alternate Segment Theorem</p> $\angle a = \angle b, \angle c = \angle d$ 	<p>Intersecting Chords Theorem</p> $AX \cdot XB = CX \cdot XD$ 	<p>Tangent-Secant Theorem</p> $AX \cdot BX = TX^2$ 