

TRIANGLE

Similar Triangles: Two Triangles are said to be similar if

- (a) Their corresponding angles are equal (also called Equiangular Triangles)
- (b) Ratio of their corresponding sides are equal proportional

All congruent figures are similar but similar figures may / may not congruent conditions for similarity of two Triangles

- (a) AAA criterion.
- (b) SAS similarity criterion.
- (c) SSS similarity criterion

Important Theorem of Triangles

- (a) Basic Proportionality Theorem (B.P.T.) OR Thales Theorem

Theorem : If a line is drawn parallel to one side of a triangle intersecting the other two sides, then the other two sides are divided in the same ratio.

- (b) Converse of B.P.T.

Theorem : If a line divides any two sides of triangle proportionally, the line is parallel to the third side.

- (c) Area related theorem of Similar Triangles:

Theorem : The areas of two similar triangles are proportional to the squares of their corresponding sides

- (d) Pythagoras Theorem

Theorem : In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.

- (e) Converse of Pythagoras Theorem

Theorem : If in a triangle, square of one side is equal to the sum of the squares of the other two sides, then the angle opposite the first side is a right angle.

COORDINATE GEOMETRY

1. Distance Formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

- 2. Section Formula:

$$x = \frac{mx_2 + nx_1}{m+n}, y = \frac{my_2 + ny_1}{m+n}$$

- 3. Mid point Formula: If R is the mid-point, then

$m_1 = m_2$ and the coordinates of R are

$$R\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

- 4. Co-ordinates of the centroid of triangle:

$$\left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3}\right)$$

- 5. Area of a Triangle

$$\frac{1}{2} (x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2))$$

INTRODUCTION TO TRIGONOMETRY

- 1. In a right triangle ABC.

$$\sin A = \frac{\text{side opposite to angle A}}{\text{hypotenuse}}$$

$$\cos A = \frac{\text{side adjacent to angle A}}{\text{hypotenuse}}$$

$$\tan A = \frac{\text{side opposite to angle A}}{\text{side adjacent to angle A}}$$

$$\operatorname{cosec} A = \frac{1}{\sin A}, \operatorname{sec} A = \frac{1}{\cos A}$$

$$\tan A = \frac{1}{\cot A}, \cot A = \frac{1}{\tan A}$$



- 2. Important trigonometric identities:

- (i) $\sin^2 \theta + \cos^2 \theta = 1$
- (ii) $1 + \tan^2 \theta = \sec^2 \theta$
- (iii) $1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$

- 3. Trigonometric Ratios of specific angles

Angle	θ	$90^\circ - \theta$	$180^\circ - \theta$	$270^\circ - \theta$
\sin	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$
\cos	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$
\tan	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$
\cot	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$
\sec	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$
cosec	θ	$\frac{1}{\theta}$	$\frac{1}{\theta}$	$\frac{1}{\theta}$

- 4. Trigonometric ratios of complementary angles.

- (i) $\sin(90^\circ - \theta) = \cos \theta$
- (ii) $\cos(90^\circ - \theta) = \sin \theta$
- (iii) $\tan(90^\circ - \theta) = \cot \theta$
- (iv) $\cot(90^\circ - \theta) = \tan \theta$
- (v) $\sec(90^\circ - \theta) = \operatorname{cosec} \theta$
- (vi) $\operatorname{cosec}(90^\circ - \theta) = \sec \theta$

SOME APPLICATIONS OF TRIGONOMETRY

- (i) The line of sight is the line drawn from the eye of an observer to the point in the object viewed by the observer.
- (ii) The angle of elevation θ_1 : angle formed by the line of sight with the horizontal when it is above the horizontal level

- (iii) The angle of depression θ_2 : angle formed by the line of sight with the horizontal when it is below the horizontal level



CIRCLE

- 1. Circle: A circle is a collection of all points in a plane which are at a constant distance (radius) from a fixed point (centre).

- 2. Tangent to a Circle: It is a line that intersects the circle at only one point. There is only one tangent at a point of the circle. The tangent to a circle is a special case of the secant, when the two end points of its corresponding chord coincide.

- 3. Number of tangents from a point on a circle.

- (i) No tangent (ii) One tangent (iii) Two tangent



- 4. Theorem: (i) The tangent at any point of a circle is perpendicular to the radius through the point of contact. (ii) The lengths of tangents drawn from an external point to circle are equal.

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