ANALYTIC GEOMETRY

x , ABSCISSA

y , ORDINATE

r

θ

Locus – set of points (equation)

Rectangular Coordinates: (x,y)

Polar Coordinates: (r,θ)

$$r = \sqrt{x^2 + y^2}$$

$$\tan \theta = \frac{y}{x}$$

EQUATION OF A LINE

General Form:
$$Ax + By + C = 0$$

Standard Form:
$$Ax + By = C$$

Point–slope form:
$$(y_2 - y_1) = m(x_2 - x_1)$$

Slope-intercept form:
$$y = mx + b$$

Two-point form:
$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{y - y_1}{x - x_1}$$

Intercept form:
$$\frac{x}{a} + \frac{y}{b} = 1$$

SLOPE OF A LINE

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{rise}{run}$$

INCLINATION OF A LINE:

$$\tan\theta = m = \frac{y_2 - y_1}{x_2 - x_1}$$

ANGLE BETWEEN TWO LINES

$$\tan \theta = \frac{m_2 - m_1}{1 + m_2 m_1}$$

PARALLEL AND PERPENDICULAR LINES

For parallel lines
$$// : m_1 = m_2$$

For perpendicular lines:
$$\perp : m_1 = -\frac{1}{m_2}$$

AREA BY COORDINATES:

$$A = \frac{1}{2}|UP - LP|$$

DISTANCE BETWEEN TWO POINTS ON A PLANE

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

DISTANCE FROM A POINT TO A LINE

$$d = \frac{Ax_1 + By_1 + C}{\pm\sqrt{A^2 + B^2}}$$

DISTANCE BETWEEN PARALLEL LINES

$$d_p = \frac{|C_2 - C_1|}{\sqrt{A^2 + B^2}}$$

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M Woodhall

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