ANALYTIC GEOMETRY



Rectangular Coordinates: (x,y)

Polar Coordinates: (r.0)

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

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

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

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{y - y_1}{x - x_1}$$

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

SLOPE OF A LINE

$$m = \frac{y_2 - y_1}{x_2 - x_3} = \frac{rise}{run}$$

INCLINATION OF A LINE.

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

ANGLE BETWEEN TWO

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

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

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

Analytic Geometry Study Guide Answers

Reza Nazari

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