

ANALYTIC GEOMETRY



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

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

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

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

Analytic Geometry Study Guide

KJ Lindholm-Leary



Analytic Geometry Study Guide:

Calculus and Analytic Geometry Richard St. Andre, 1982 **Analytic Geometry and the Calculus** Adolph Winkler
Goodman, Cynthia Mansour, 1980 Student Study Guide, Calculus and Analytic Geometry, 7th, Thomas/Finney George B.
Thomas, Maurice D. Weir, 1988 **Pamphlet - Dept. of the Army** United States. Department of the Army, 1951 Student
Study Guide for Calculus with Analytic Geometry Marvin J. Forray, Stephanie M. White, 1978 Elements of Calculus and
Analytic Geometry/Student Study Guide Addison-Wesley Longman, Incorporated, Maurice D. Weir, 1989 **Resources in**
Education, 1988 **DOD Pam** United States. Office of Armed Forces Information and Education, Analytic Geometry
Gordon Fuller, 1991-12-01 *Naval Training Bulletin*, 1965

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