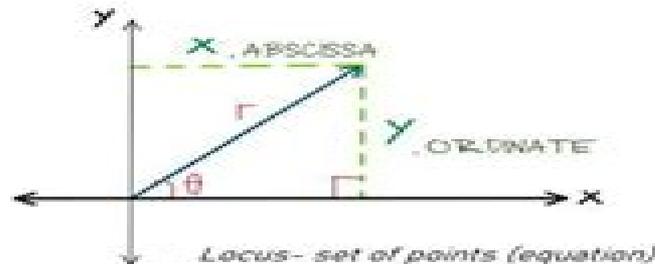


# ANALYTIC GEOMETRY



Rectangular Coordinates:  $(x, y)$

Polar Coordinates:  $(r, \theta)$

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

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

## 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

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

# Elements Of Analytic Geometry

**George Alexander Gibson, Peter  
Pinkerton**



## **Elements Of Analytic Geometry:**

The Elements of Analytical Geometry Elias Loomis,1877      **Elements of Analytical Geometry** George Alexander Gibson,Peter Pinkerton,1919      **Elements of Analytic Geometry** George Albert Wentworth,1886      Elements of Analytic Geometry George Albert Wentworth,1890      **The Elements of Analytic Geometry** Albert L. Candy,2015-06-02

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