

ANALYTIC GEOMETRY

Distance between two points

Distance Formula

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

Slope of a Line

$$\text{Slope} = m = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x}$$

$$\tan \theta = m$$

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

Parallel lines

$$m_1 = m_2$$

Perpendicular Lines

$$m_2 = -\frac{1}{m_1}$$

Angle between two lines

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

Distance between a point and a line

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

Distance between two parallel lines

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

Coordinates of a point that divides the line segment

$$x = \frac{x_1 + r_1 x_2}{1 + r_1}$$

$$y = \frac{y_1 + r_1 y_2}{1 + r_1}$$

if the point is in the mid-point;

$$x = \frac{x_1 + x_2}{2} ; y = \frac{y_1 + y_2}{2}$$

Area of a Polygon using the coordinates of vertices

$$A = \frac{1}{2} \left[\begin{vmatrix} x_1 & x_2 & x_3 & \dots & x_n & x_1 \\ y_1 & y_2 & y_3 & \dots & y_n & y_1 \end{vmatrix} \right]$$

Formulas For Eoct Georgia Analytic Geometry

S Ben Porath



Formulas For Eoct Georgia Analytic Geometry:

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