

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:
 $\text{if } m_1 = m_2$

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

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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- Chapter 3: Analytic Geometry Study Guide Answers in Everyday Life
- Chapter 4: Analytic Geometry Study Guide Answers in Specific Contexts
- Chapter 5: Conclusion

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