

# PHYSICS 1

## STUDY GUIDE

FORMULA SHEETS, PRACTICE  
PROBLEMS AND SOLUTIONS



$$R = \sqrt{A^2 + B^2 + 2AB \cos \theta}$$

$$\tan \alpha = \frac{B \sin \theta}{A + B \cos \theta}$$



$$v = \sqrt{v_x^2 + v_y^2}$$

$$\tan \theta = \frac{v_y}{v_x}$$



$$F = \frac{k \Delta l}{2}$$



$$F_x = F \cos \theta$$

$$F_y = F \sin \theta$$



FOR ALGEBRA-BASED  
COLLEGE & AP PHYSICS



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**ML Yell**



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