

1 Kinematics

$$x = x_0 + \bar{v}t$$

$$\bar{v} = \frac{v_0 + v}{2}$$

$$v = v_0 + at$$

$$x = x_0 + v_0t + 1/2at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

$$a = \frac{\Delta v}{\Delta t}$$

2 Vectors

$$R = A + B$$

Find magnitude: $R = \sqrt{A^2 + B^2}$

Find Components: $V_{yi} = \cos \theta m_v$ $V_{xi} = \sin \theta m_v$

3 etc.