

$$\vec{v}$$

$$\int_{-1}^1 [x + 4] dx$$

$$\left. \frac{x^2}{2} + 4x \right|_{-1}^1$$

$$\Delta x$$

$$\vec{V} = \vec{V}_1 + \vec{V}_2$$

$$\vec{v} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{r}}{\Delta t} = \frac{d\vec{r}}{dt}$$

$$\overline{v\vec{v}}$$

Kinematic Equations for Constant Acceleration

$$v = v_o + at$$

$$x = x_o + v_o t + \frac{1}{2}at^2$$

$$v^2 = v_o^2 + 2a(x - x_o)$$

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