

Kinematical Formulas—*Memorize!*

$$\Delta x = v_0 t + \frac{1}{2} a t^2$$

$$v_f = v_0 + a t$$

$$v_f^2 = v_0^2 + 2 a \Delta x$$

$$\bar{v} \equiv \Delta x / t$$

$$\bar{v} = (v + v_0) / 2$$