Mechanics

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1 Kinematics

$$d = v_i \cdot \Delta t + \frac{1}{2} \cdot a \cdot \Delta t^2$$
$$v_f^2 = v_i^2 + 2 \cdot a \cdot \Delta d$$
$$\bar{a} = \frac{\Delta v}{\Delta t}$$
$$\bar{v} = \frac{\Delta d}{\Delta t}$$