

no 51

$$ma_x = 0,$$

$$ma_y = -mg. \quad (2)$$

$$x(t) = x_0 + v_{x0}t,$$

$$y(t) = y_0 + v_{y0}t - \frac{1}{2}gt^2. \quad (3)$$

$$a_x = \frac{\Delta v_x}{\Delta t} = \frac{v_x(t + \Delta t) - v_x(t)}{\Delta t} . \quad (4)$$

$$a_x = \frac{F_x}{m} \quad (5)$$

$$\frac{v_x(t + \Delta t) - v_x(t)}{\Delta t} = \frac{F_x}{m} \quad (6)$$

$$v_x(t + \Delta t) = v_x(t) + \Delta t \cdot \frac{F_x}{m} \quad (7)$$

$$v_x = \frac{x(t + \Delta t) - x(t)}{\Delta t} \quad (8)$$

