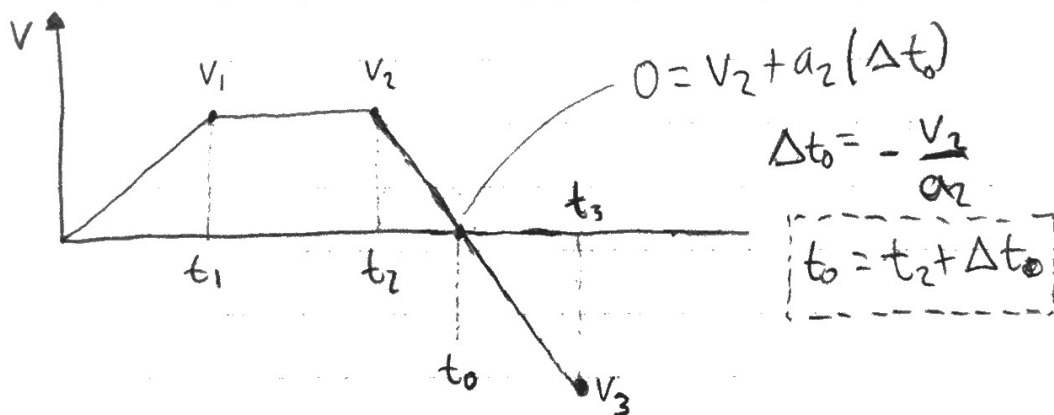


$$a_1 = \frac{F_1}{m}$$

$$a_2 = -\frac{F_2}{m}$$

$$x_f = x_0 + v_0 \Delta t + \frac{1}{2} a (\Delta t)^2$$



$$v_1 = a_1 t_1$$

$$v_2 = v_1$$

$$v_3 = v_2 + a_2(t_3 - t_2)$$

$$x_1 = \frac{1}{2} v_1 t_1$$

$$x_2 = x_1 + v_2(t_2 - t_1)$$

$$x_3 = x_2 + \frac{1}{2} v_2(t_0 - t_2) + \frac{1}{2} v_3(t_3 - t_0)$$