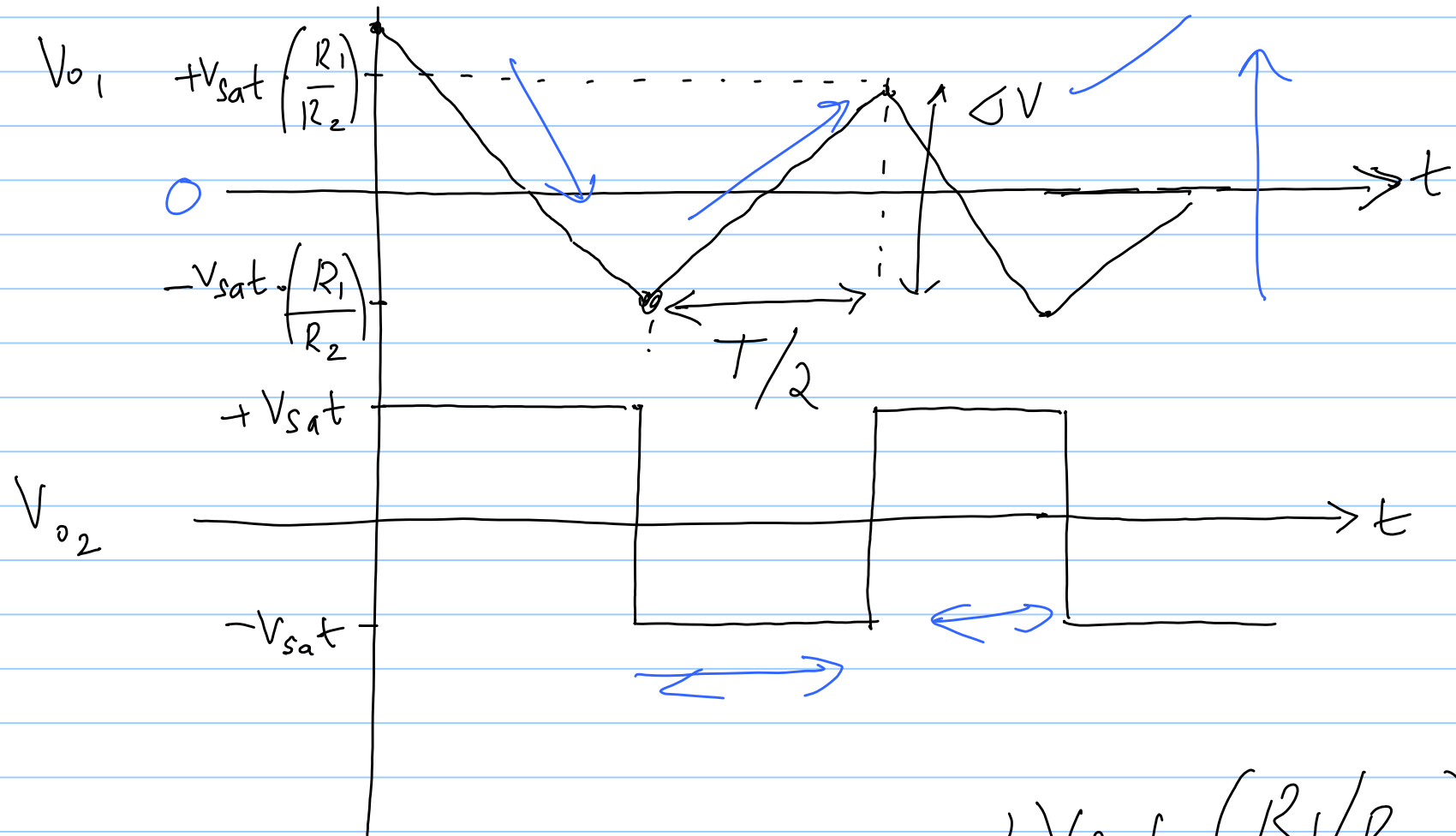


30/01/19

Lec 9

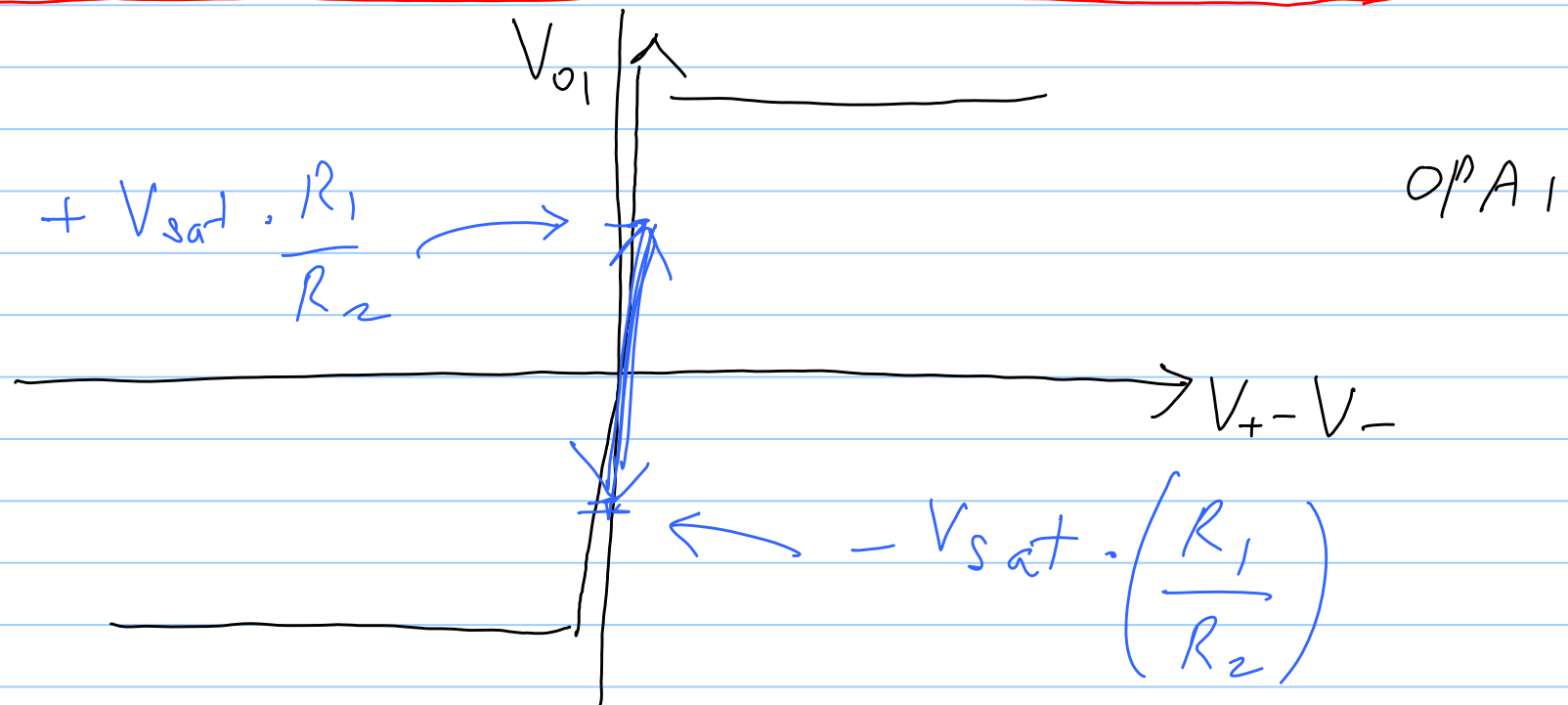
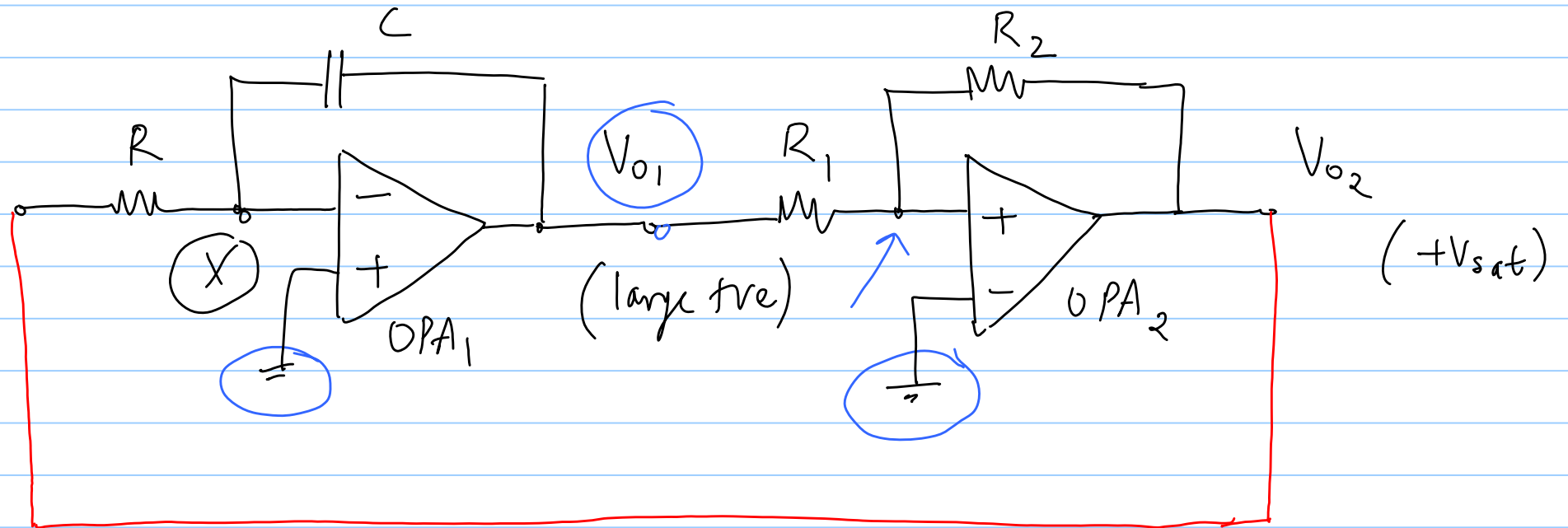


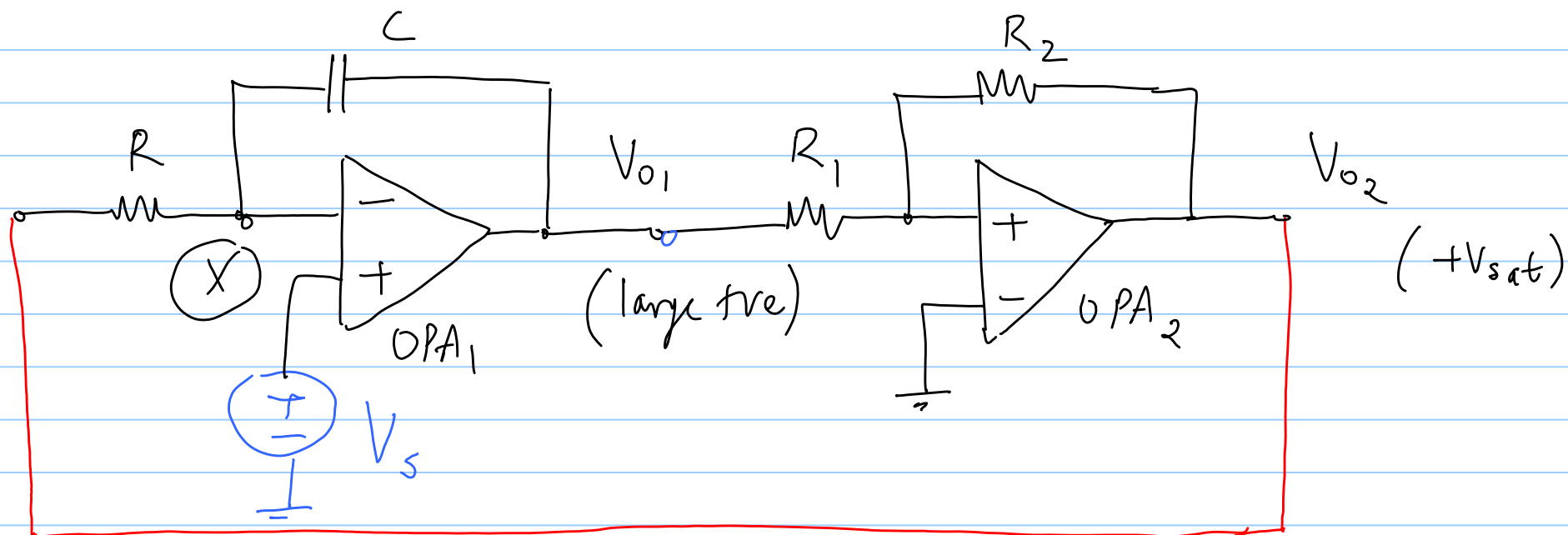
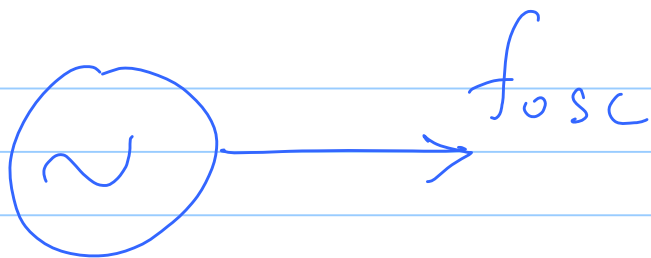
$$\text{slope} = \frac{\Delta V}{T/2} = \frac{2 \cdot V_{sat} (R_1/R_2)}{T/2}$$

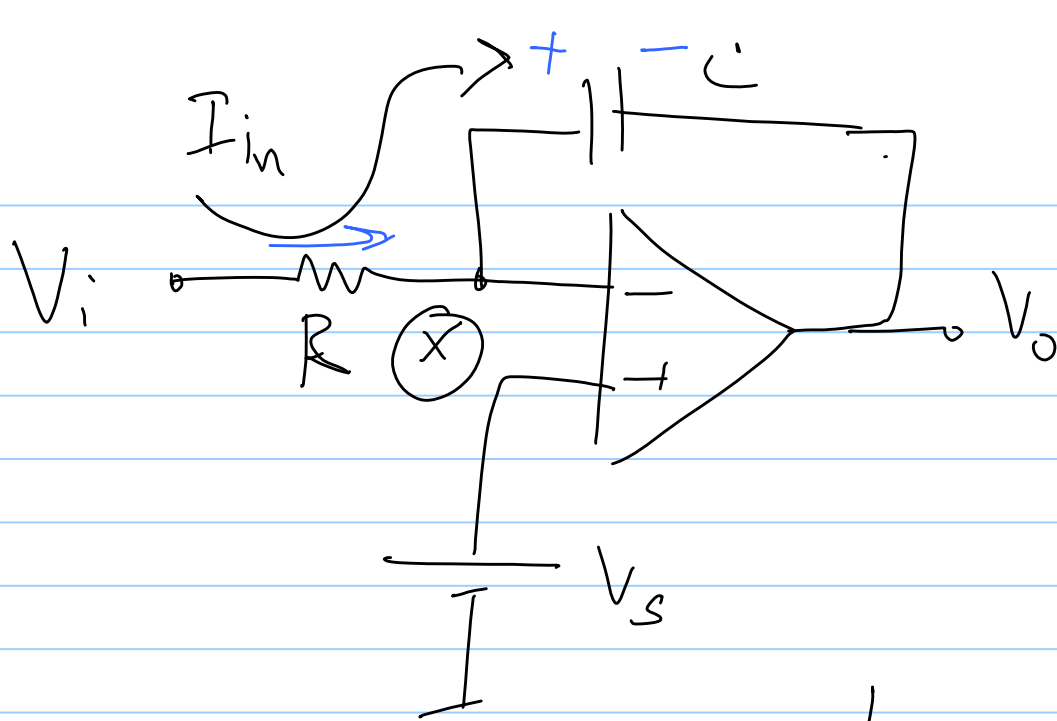
$$\frac{V_{sat}}{R_c} = \frac{4V_{sat} (R_1/R_2)}{T}$$

$$T = 4R_c (R_1/R_2)$$

$$f = 1/T$$







$$-\frac{1}{R_c} \int_0^t V_i(t) dt$$

$$I_{in} = \frac{V_i - V_s}{R}$$

$$V_o - V_s = -\frac{1}{Rc} \int_0^t (V_i(t) - V_s) dt$$

$$\frac{V_i - V_s}{R} = I_{in}$$

$$I_c = C \frac{dV_c}{dt}$$

$$V_c = \int \frac{I_c}{C} dt$$

$$V_s - V_o = \frac{1}{Rc} \int_0^t (V_i - V_s) dt$$