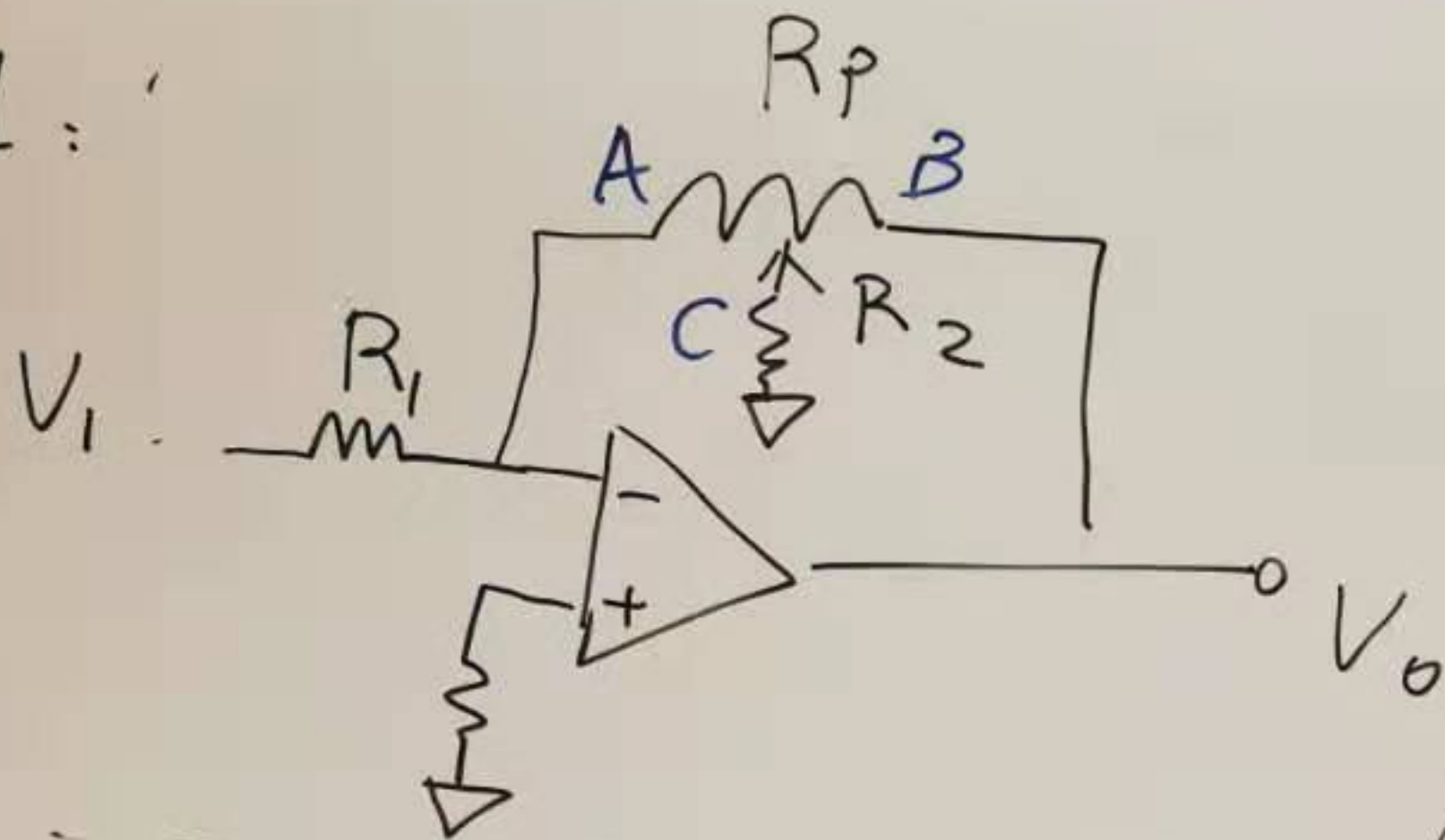


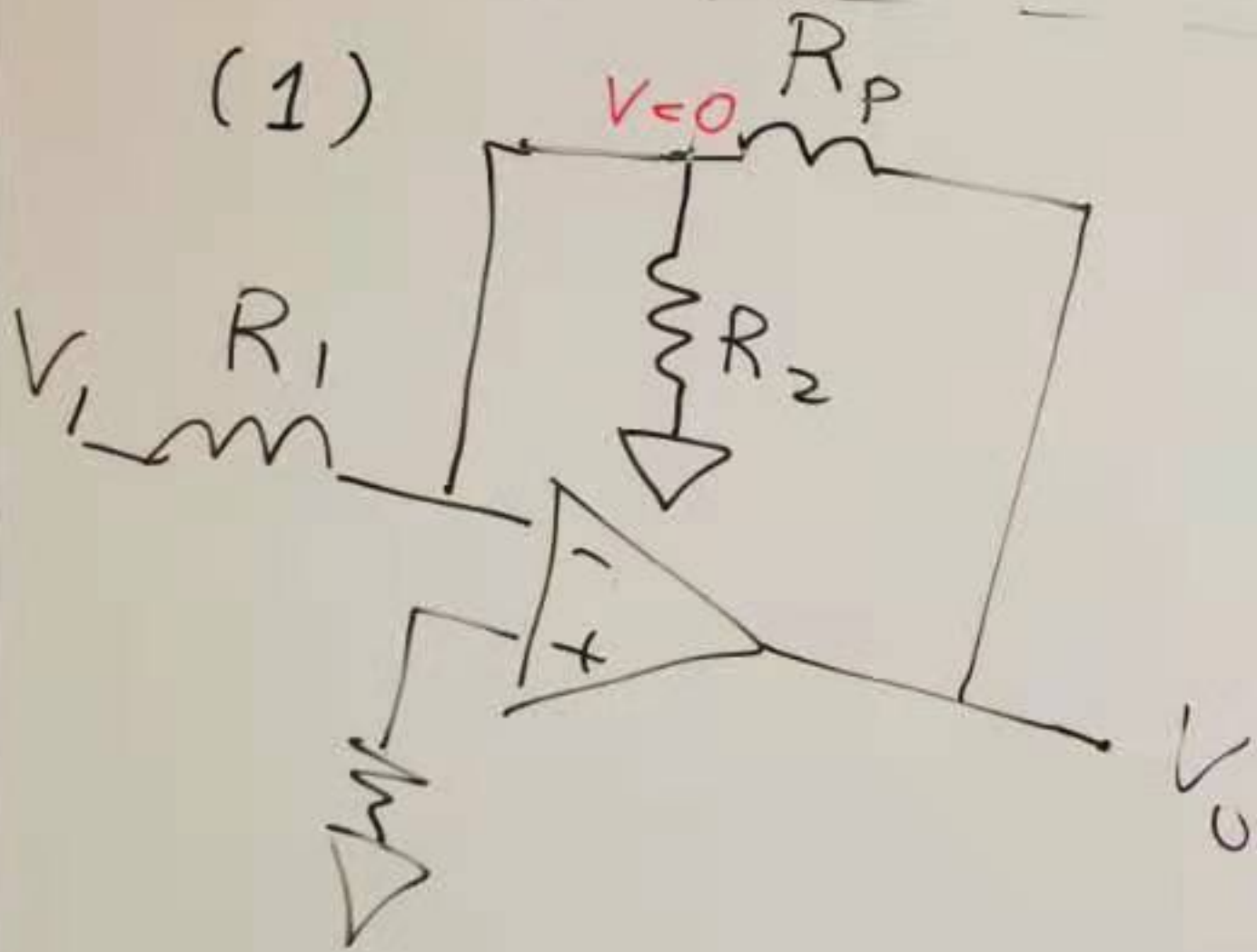
HW1:

(2)

Q1:

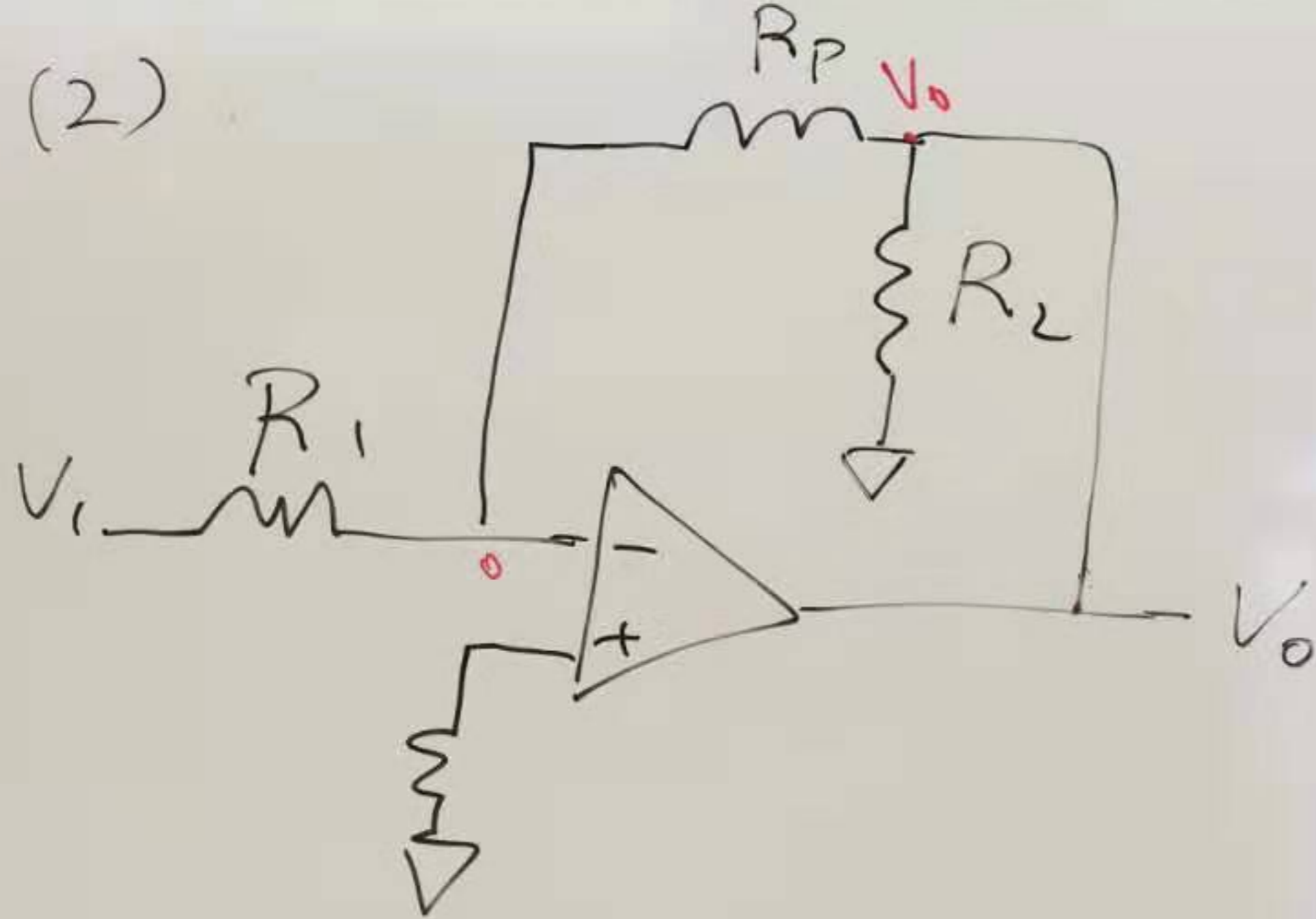


(1)



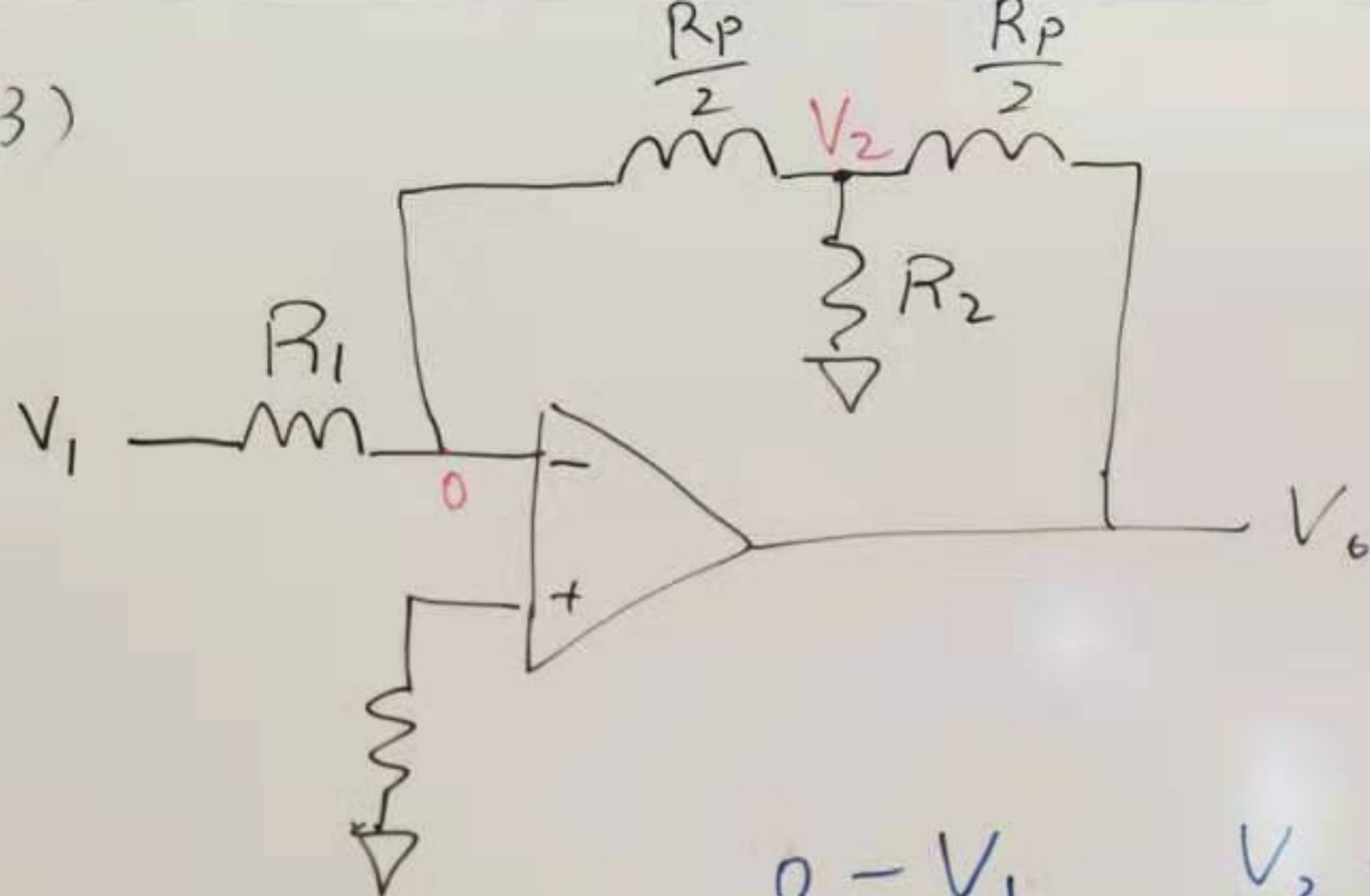
$$\frac{0 - V_i}{R_1} = \frac{V_o - 0}{R_p}$$

(2)



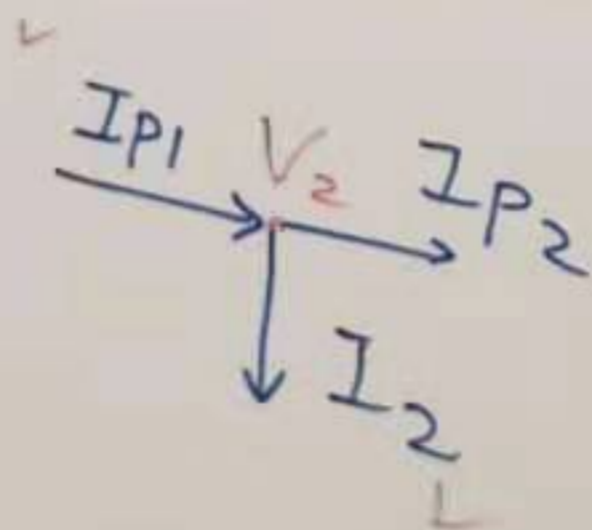
$$\frac{0 - V_i}{R_1} = \frac{V_o - 0}{R_p}$$

(3)



Step 1: 
$$\frac{0 - V_1}{R_1} = \frac{V_2 - 0}{\frac{R_P}{2}} \Rightarrow V_2 = -1 \text{ V}$$

Step 2:



$$I_{P1} = I_{P2} + I_2$$

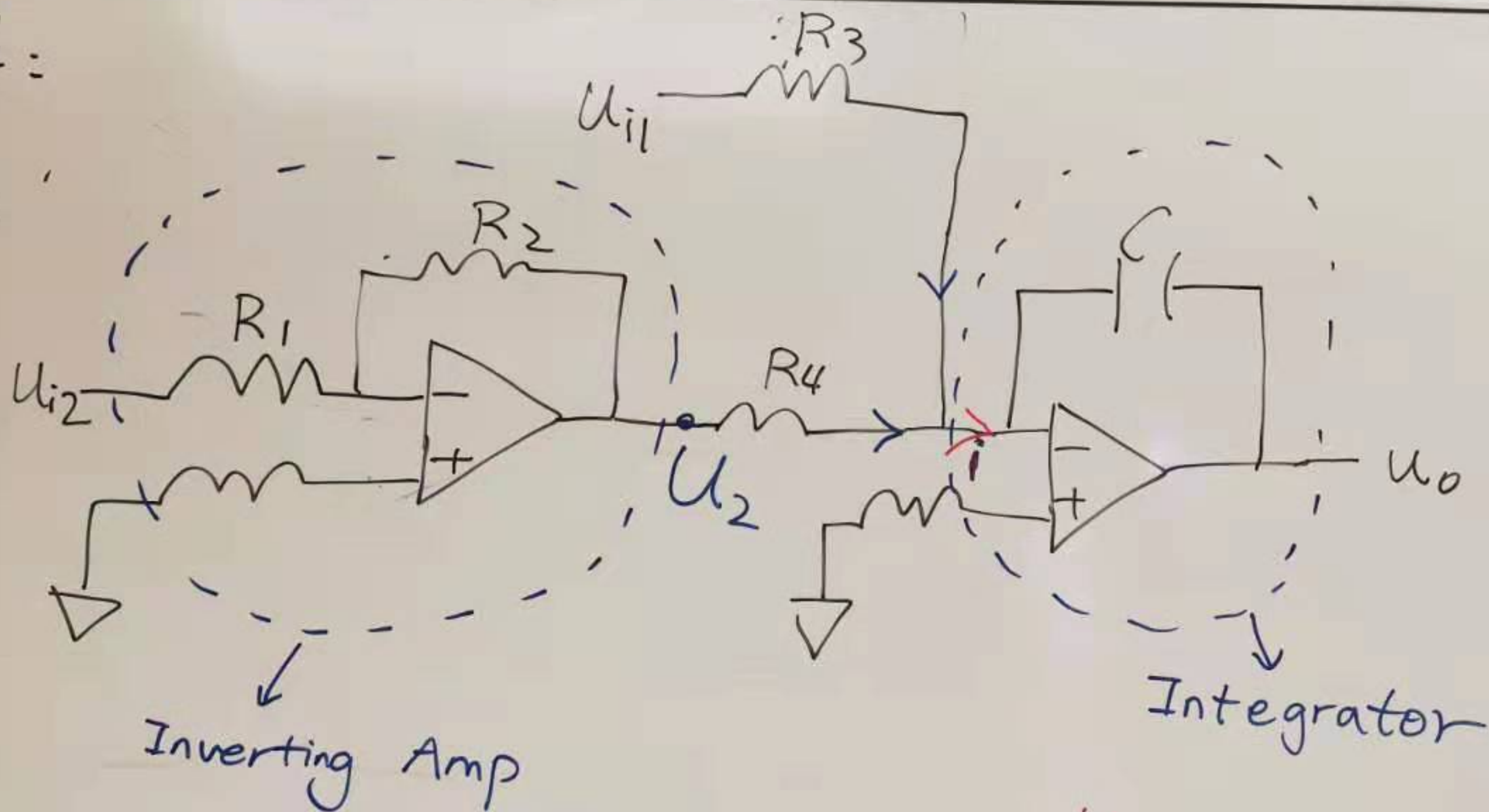
Step 3: Calculate  $I_{P1}$ ,  $I_2 \Rightarrow I_{P2}$

Step 4:

$$I_{P2} = \frac{V_2 - V_0}{\frac{R_P}{2}}$$

HW 1:

Q14:



$$U_2 = -\frac{R_2}{R_1} \cdot U_{i2}$$

$$i = \frac{U_2}{R_4} + \frac{U_{i1}}{R_3}$$