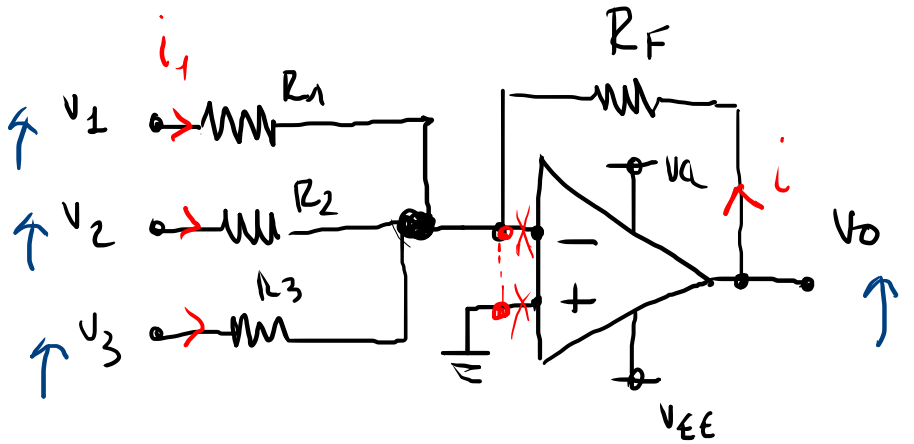

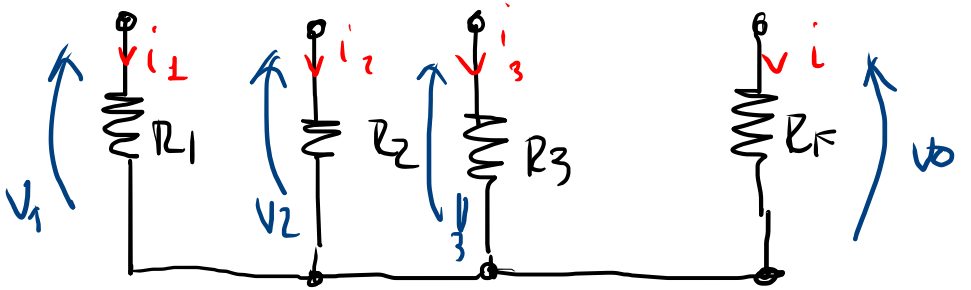

$V^+ = V^-$

$i_1 = \frac{V_1}{R_1}$ $i_2 = \frac{V_2}{R_2}$ ..

$i = \frac{V_o}{R_F}$

$i = -i_1 - i_2 - i_3$

$\frac{V_o}{R_F} = -\frac{V_1}{R_1} - \frac{V_2}{R_2} - \frac{V_3}{R_3}$

$V_o = -V_1 \underbrace{\frac{R_F}{R_1}} - V_2 \underbrace{\frac{R_F}{R_2}} - V_3 \underbrace{\frac{R_F}{R_3}}$