

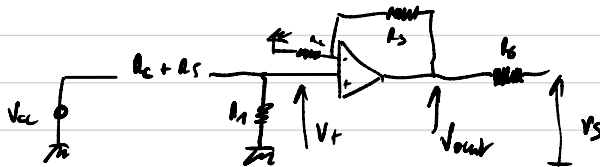
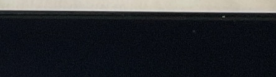
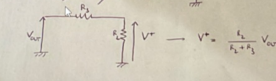
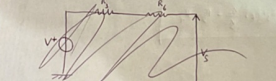
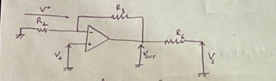
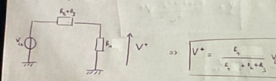
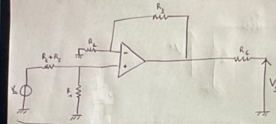
$$\Rightarrow V^+ = \frac{R_L}{R_1 + R_2 + R_L} V_S \Rightarrow V^+ = \frac{R_2 + R_2 + R_L}{R_1 + R_2 + R_L} V^+$$

$$\Rightarrow V_S = \frac{R_2 + R_2 + R_L}{R_L} \cdot \frac{R_L}{R_1 + R_2 + R_L} V_{CC}$$

$$R_1 + R_2 + R_L = \frac{R_L}{R_L} (R_1 + R_2 + R_L) \frac{V_{CC}}{V_S}$$

$$\Rightarrow R_C = \frac{R_L}{R_L} (R_1 + R_2 + R_L) \frac{V_{CC}}{V_S} - R_2 - R_1$$

INSTRUMENTATION ET PRATIQUE DES RÉACTIVÉS
SOLÉNNES



$$V_{out} = V_S$$

$$\bullet V^+ = \frac{R_2}{R_1 + R_2 + R_L} V_{CC}$$

$$\Rightarrow \text{donc } V_{out} = \frac{R_2 + R_3}{R_2} \times \frac{R_1}{R_1 + R_5 + R_2} V_{CC}$$

$$\bullet \frac{V_{out}}{V^+} = 1 + \frac{R_2}{R_2}$$

$$\Rightarrow \frac{R_1 + R_5 + R_2}{R_1} \times \frac{V_{out}}{V_{CC}} = \frac{R_2 + R_3}{R_2}$$

$$\frac{R_2}{R_2} + \frac{R_5 + R_1}{R_1} = \frac{R_2 + R_3}{R_2} \frac{V_{CC}}{V_{out}}$$

$$R_2 = \left(\left(\frac{R_2 + R_3}{R_2} \frac{V_{CC}}{V_{out}} \right) - \frac{R_5 + R_1}{R_1} \right) \times R_1$$

$$= \left(R_1 \cdot \frac{R_2 + R_3}{R_2} \frac{V_{CC}}{V_{out}} \right) - R_5 - R_1$$