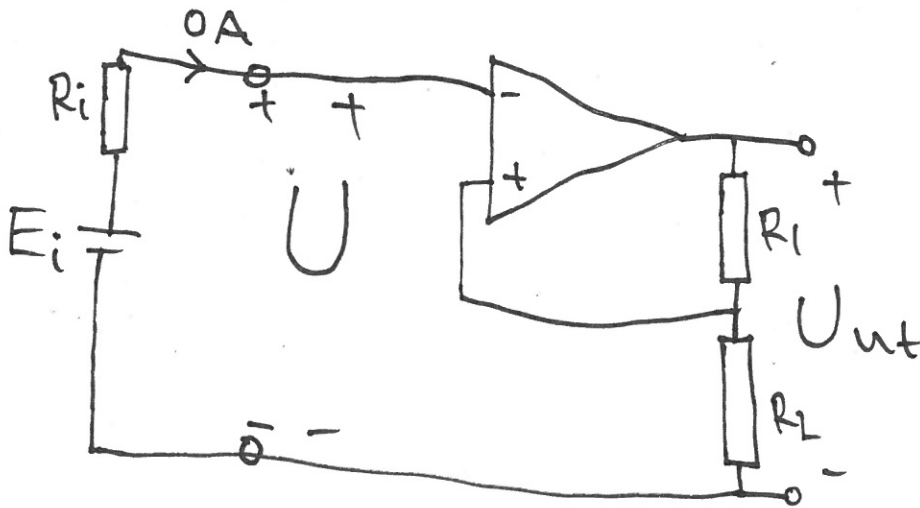


F 1.4) Lösning med icke-inverterande steg



$$U = E_i$$

$$\frac{U_{ut}}{U} = \frac{R_1 + R_2}{R_2}$$

Krav:  $U_{ut} = 5V$  när  $E_i = 50mV$

$$\Rightarrow \frac{U_{ut}}{U} = \frac{5}{0.05} = 100$$

$$\Rightarrow \frac{R_1 + R_2}{R_2} = 100 \quad \text{Låt oss välja } R_1 = 1000\Omega$$

$$\frac{1000 + R_2}{R_2} = 100 \Rightarrow R_2 \approx 10.1\Omega$$