F1.5

(JFR MED F1.6)

$$+u_f - R_1 i - u_0 - R_3 i = 0 \quad \ldots (1)$$

$$+ u_c + i R_2 + u_0 + R_4 i = 0 \quad \ldots (2)$$

$$(1) \rightarrow i = \frac{u_f}{R_1 + R_3}$$

$$(2) \rightarrow i = -\frac{u_c}{R_2 + R_4}$$

$$\Rightarrow$$

$$\frac{u_f}{R_1 + R_3} = -\frac{u_c}{R_2 + R_4} \Rightarrow$$

$$\boxed{u_c = -u_f \cdot \frac{R_2 + R_4}{R_1 + R_3}}$$

FÖR UPPGIFT F1.5 GÄLLER

$$u_c = -u_1 \cdot \frac{R_A^{\circ} + R_{\mathring{A}}}{(R + R_F) + R_F}$$

$$u_c = -0,082 \cdot \frac{270000 + 270000}{(33000 + 12000) + 12000} = -0,777\ V$$