



$$C_1: R_1 i + V_1 = 0$$

$$C_2: -R_1 i - R_2 i = -\dot{\Phi}_B = -\mathcal{E} \quad (\mathcal{E} > 0) \Rightarrow i = \frac{\mathcal{E}}{R_1 + R_2}$$

$$C_3: -V_2 + R_2 i = 0$$

$$\Rightarrow V_1 \stackrel{C_1}{=} -R_1 i \stackrel{C_2}{=} -R_1 \frac{\mathcal{E}}{R_1 + R_2}$$

$$V_2 = R_2 i = R_2 \frac{\mathcal{E}}{R_1 + R_2}$$

$$R_1 = 100 \Omega, R_2 = 500 \Omega, \mathcal{E} = 1 V$$

$$\Rightarrow V_1 = -0.1 V; V_2 = +0.5 V$$