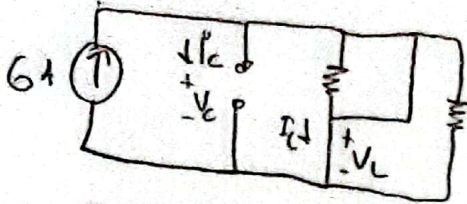


$$I_L(0^-) = I_L(0^+) = I_L(0), \quad V_C(0^-) = V_C(0^+) = V_C(0)$$

$$1. \quad I_R(0^-) = I_R(0^+) = I_R(0), \quad I_C = C \cdot \frac{dV_C}{dt}$$



$$I_L(0) = 6A \quad V_L(0) = 0V$$

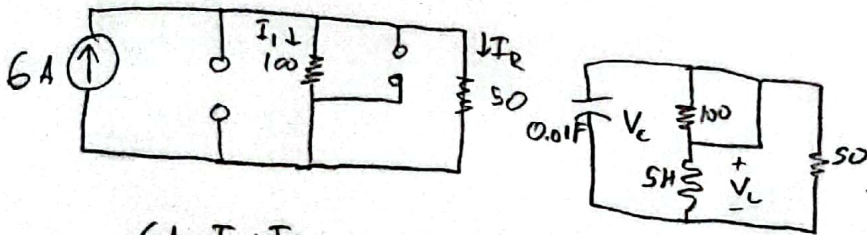
$$I_C(0) = 0A \quad V_C(0) = 0V$$

$$I_R(0^+) = 0A \quad I_C(0^+) = 0A$$

$$\frac{dV_C}{dt} = 0$$

2. Başlangıç

$I(0^+)$



$$6A = I_1 + I_R$$

$$I_R = \frac{100}{150} \cdot 6 = 4A, \quad I_1 = 2A$$

$$I_C = I_1 = 2A$$

$$V_C = 2A \cdot 100\Omega = 200V$$

$$I_L(0^+) = 2A \quad V_C(0^+) = 200V$$

$$I_R(0^+) = 4A \quad V_L(0^+) = V_C(0^+) = 200V$$

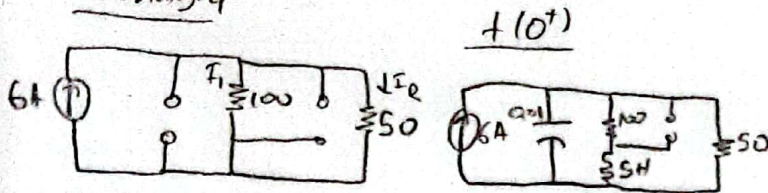
$$I_C(0^+) = -6A$$

$$\frac{dV_C}{dt} = \frac{I_C(0^+)}{C} = \frac{-6}{0.01} = -600V/s$$

$$I_L(0^-) = I_L(0^+) = I_L(0), \quad V_C(0^-) = V_C(0^+) = V_C(0)$$

$$I_R(0^-) = I_R(0^+) = I_R(0), \quad I_C = C \cdot \frac{dV_C}{dt}$$

2.c

Başlangıç

$$6A = I_1 + I_R$$

$$I_R = \frac{100}{150} \cdot 6 = 4A, \quad I_1 = 2A$$

$$I_L = I_1 = 2A$$

$$V_C = 2A \cdot 100\Omega = 200V$$

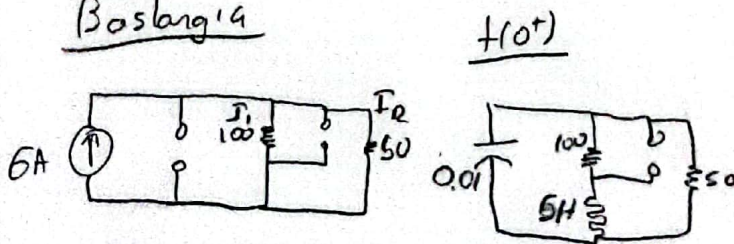
$$I_L(0^+) = 2A \quad V_C(0^+) = 200V$$

$$I_R(0^+) = 4A \quad V_L(0^+) = V_C - 100\Omega \cdot I_1 = 0V$$

$$I_C(0^+) = 0A$$

$$\frac{dV_C}{dt} = \frac{I_C(0^+)}{C} = 0V/s$$

2.d

Başlangıç

$$6A = I_1 + I_R$$

$$I_R = \frac{100}{150} \cdot 6A = 4A, \quad I_1 = 2A$$

$$V_C = 2A \cdot 100\Omega = 200V$$

$$I_L(0^+) = 2A \quad V_C(0^+) = 200V$$

$$I_R(0^+) = 4A \quad V_L(0^+) = V_C - 100\Omega \cdot I_1 = 0V$$

$$I_C(0^+) = -6A$$

$$\frac{dV_C}{dt} = \frac{I_C(0^+)}{C} = \frac{-6}{0.01} = -600V/s$$