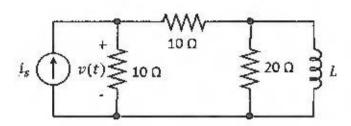
When
$$t < 0$$
, $i_s = I_0$

When t > 0, $l_S = I_1$

Find $v(t) = A \cdot e^{-t/\tau} + B$ for t > 0

11:6A

L: 0.25 uH



$$G(\sigma) = (4A) \cdot (10/10) = 20V$$

$$G(\sigma) = (4A) \cdot \frac{10}{10+10} = 2A$$

$$\hat{C}_L(o^{\dagger}) = 2A$$

(1) $2A$ Superposition.

$$V_1 = 6. (10//30) = (.30 = 45V)$$

$$V_2 = (-2).(24/14).1 = -10V$$

$$R_{TH} = \frac{20/120}{8} = \frac{10.0}{10}$$

$$C = \frac{L}{R_{TH}} = \frac{0.25.10^{-6}}{10} = 25.10^{-5}$$

$$B = V(^{\circ}) \Rightarrow B = 30 \vee$$

$$A+B=V(^{\circ}) \Rightarrow A = 5 \vee$$