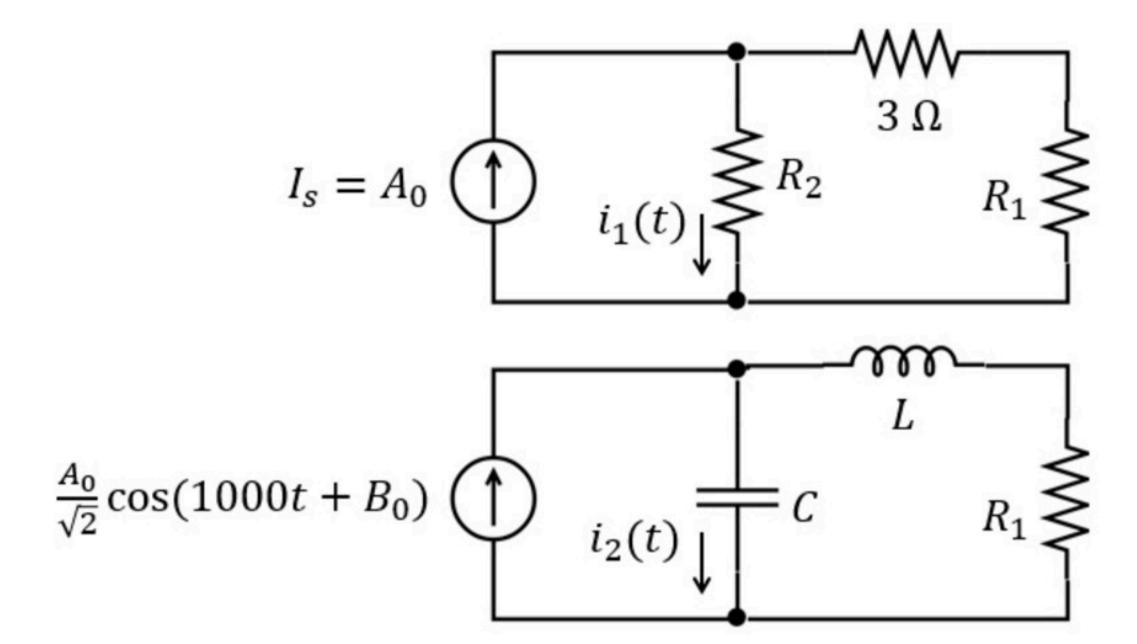
Find the steady-state currents $i_1(t)$ and $i_2(t)$.

$$i_1(t) = A_1$$

$$i_2(t) = A_2 \cos(1000t + B_2)$$
 with $-180^\circ < B_2 \le 180^\circ$



Given Variables:

A0:2A

B0: 25 degrees

C: 200 uF

L:3 mH

R1:6 ohm

R2:3 ohm

Calculate the following:

A1 (A):

1.5

A2 (A):

1.5

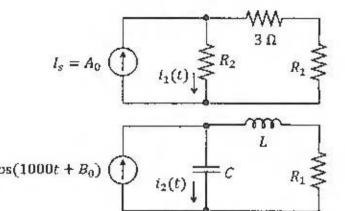
B2 (degrees):

70

Find the steady-state currents $i_1(t)$ and $i_2(t)$.

$$i_1(t) = A_1$$

$$t_2(t) = A_2 \cos(1000t + B_2)$$
 with $-180^\circ < B_2 \le 180^\circ$



B0: 20 degrees

C: 250 uF

L:4 mH

R1:4 ohm

R2:3 ohm

① CURRENT DIVIDER.
$$L_1 = 2 \cdot \frac{3+4}{3+4+3} = \frac{14}{10}$$
 $A_1 = 1.4 A$

$$I_2 = I_5 \cdot \frac{4j+4}{4j+4-4j} = I_5 \cdot \frac{H(1+j)}{H} = \frac{2}{V_2} e^{j20^\circ} V_2 e^{j45^\circ}$$

$$\hat{C}_{2}(E) = 2 \cos(1000E + 65^{\circ})$$

$$\boxed{A_{2} = 2 A}$$

$$\boxed{B_{2} = 65^{\circ}}$$