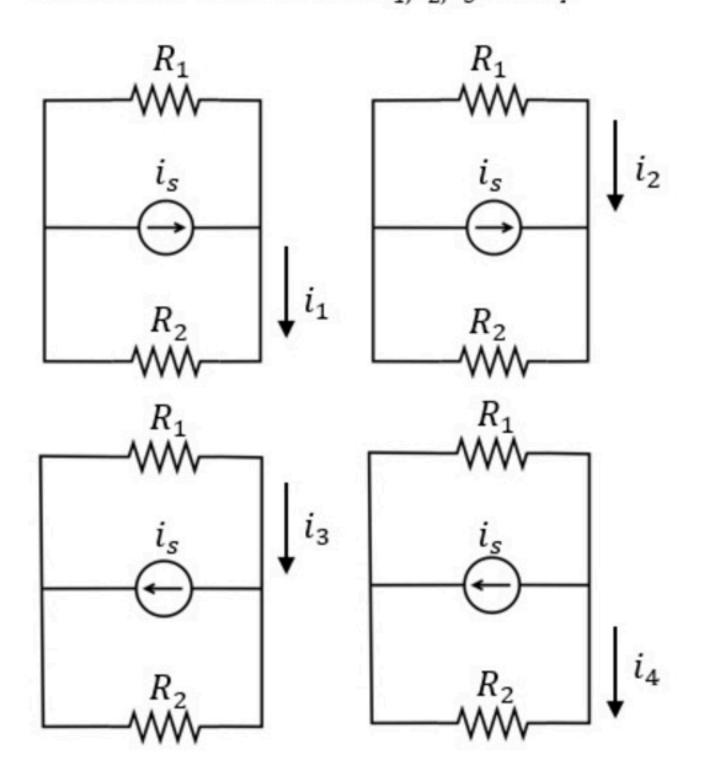
Determine the currents i_1 , i_2 , i_3 and i_4



Given Variables:

R1: 25 ohm R2: 50 ohm is: 21 A

Calculate the following:

i1 (A):

i2 (A):

i3 (A):

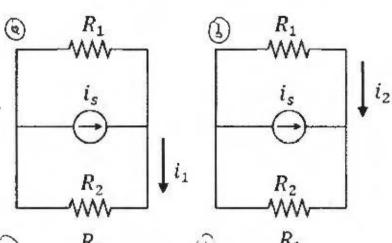
i4 (A):

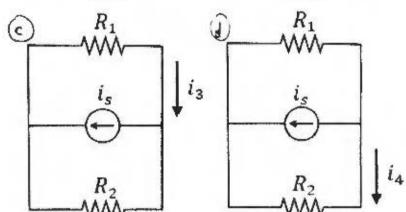
Determine the currents i_1 , i_2 , i_3 and i_4

 $R1 = 30 \Omega$

 $R2 = 10 \Omega$

is = 18 A





(a) CURRENT DIVIDER:
$$L_1 = \frac{L_5}{R_1 + R_2} = \frac{18}{40} = 13.5 \text{ A}$$

(b)
$$-\dot{c}_2 = \dot{c}_S \cdot \frac{R_2}{R_1 + R_2} = 18 \frac{10}{40} = 4.5 A \implies \left[\dot{c}_2 = -4.5 A \right]$$

$$\vec{c}_3 = \vec{c}_5 \frac{\vec{R}_2}{\vec{R}_1 + \vec{R}_2} = 18 \frac{10}{40}$$