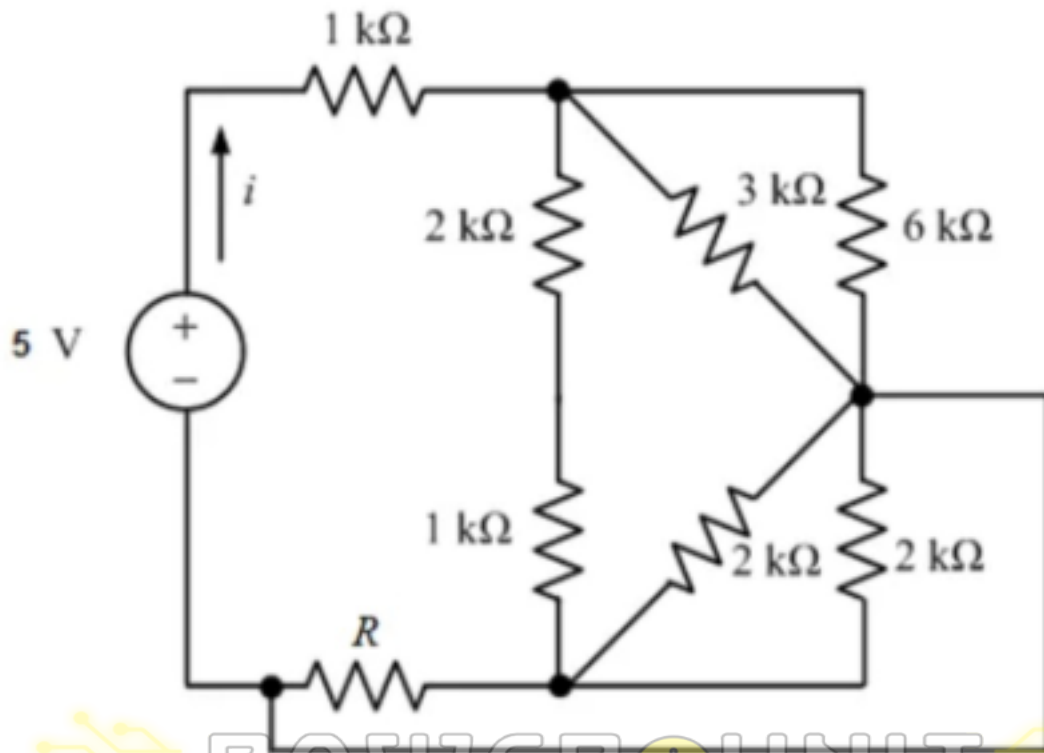
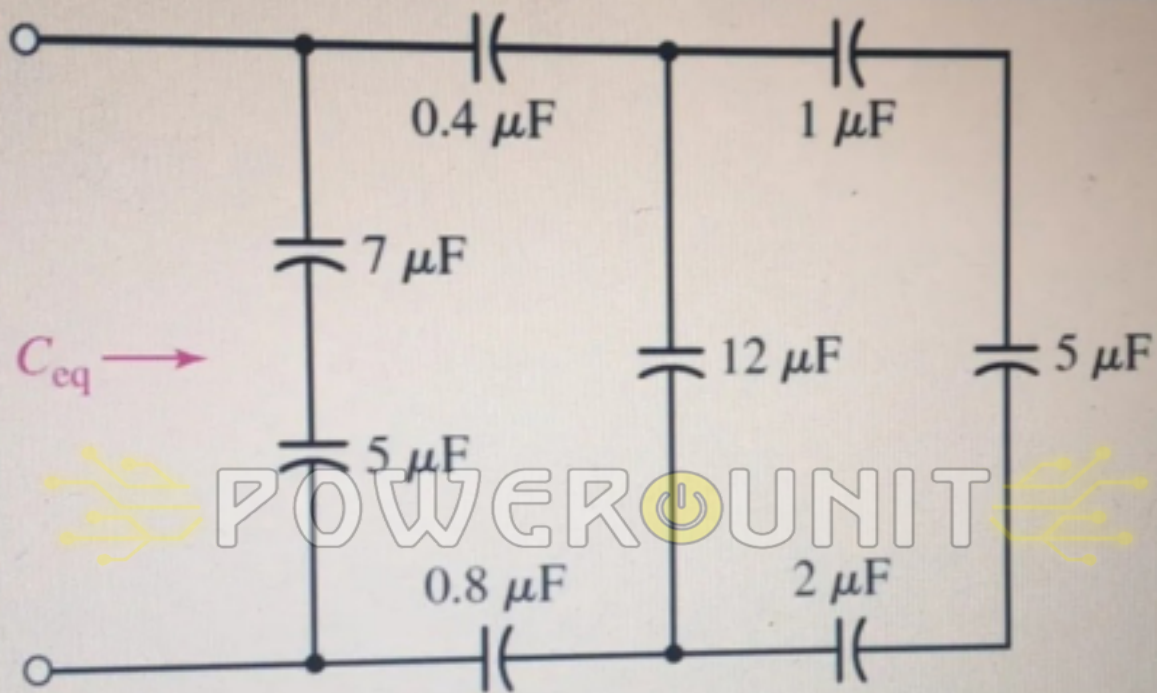


Find the value of i when $R = \frac{5}{2} \text{ k}\Omega$



- $\frac{50}{23} \text{ mA}$
- $\frac{13}{6} \text{ mA}$
- 1 mA
- $\frac{1}{3} \text{ mA}$
- $\frac{35}{16} \text{ mA}$

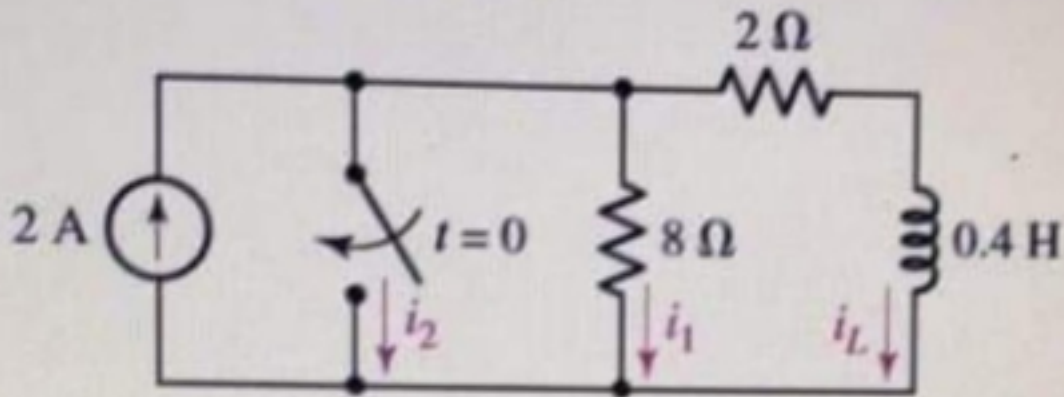
Find C_{eq} for the network in the figure.



[Zoom image](#)

- $6.18 \mu\text{F}$
- $3.18 \mu\text{F}$
- $4.18 \mu\text{F}$

Find the value of $i_2(t)$ at $t = 90$ ms.



POWERUNIT

0.7404 A

0.9798 A

0.4704 A

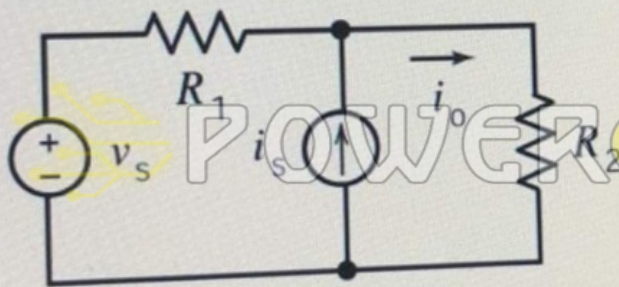
0.798 A

The circuit shown in Figure 1 has two inputs, v_s and i_s , and one output i_o . Given the following two facts:

1) The output is $i_o = 0.45$ A when the inputs are $i_s = 0.25$ A and $v_s = 15$ V.

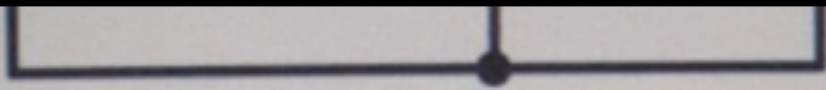
2) The output is $i_o = 0.3$ A when the inputs are $i_s = 0.5$ A and $v_s = 0$ V.

Find the values of the resistances are R_1 and R_2



$R_1 = 30 \Omega, R_2 = 20 \Omega$

$R_1 = 10 \Omega, R_2 = 15 \Omega$



$R_1=30 \Omega, R_2=20 \Omega$

$R_1=10 \Omega, R_2=15 \Omega$

$R_1=15 \Omega, R_2=10 \Omega$

$R_1=20 \Omega, R_2=30 \Omega$

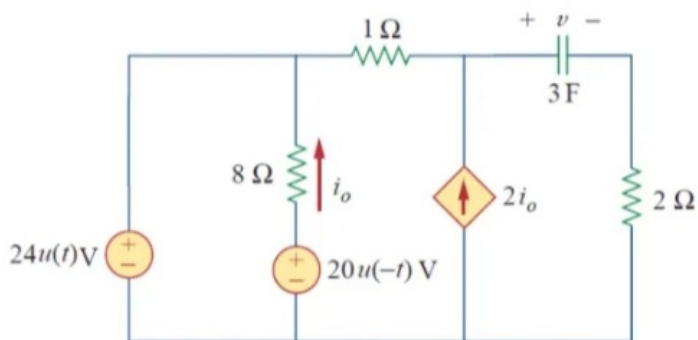
$R_1=45 \Omega, R_2=30 \Omega$

$R_1=30 \Omega, R_2=45 \Omega$

$R_1=20 \Omega, R_2=45 \Omega$

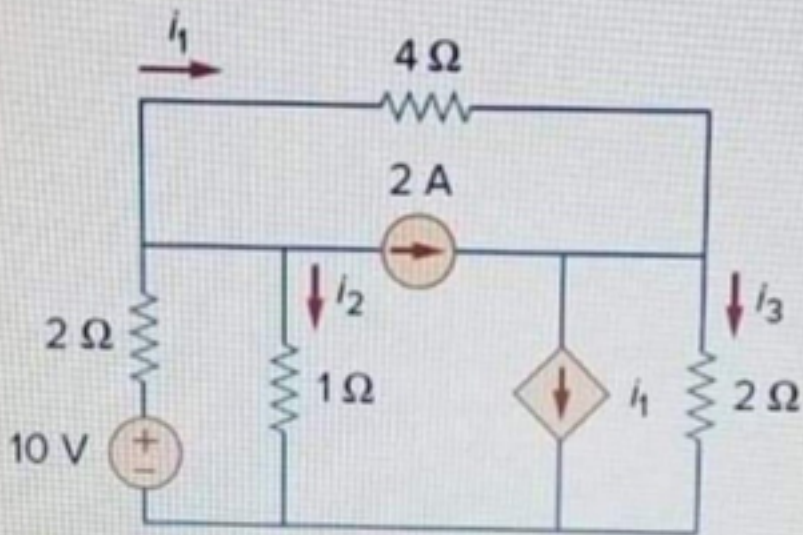
SUBMIT ANSWER

Find an expression for the voltage across the capacitor (i.e., $v(t)$ for $t > 0$)



- POWERUNIT
- $v(t) = 40 - 35e^{-\frac{t}{3}}$ V
 - $v(t) = 30 - 25e^{-\frac{t}{9}}$ V
 - $v(t) = 40 - 35e^{-\frac{t}{12}}$ V
 - $v(t) = 30 - 25e^{-\frac{t}{3}}$ V
 - $v(t) = 30 - 25e^{-\frac{t}{12}}$ V
 - $v(t) = 40 - 35e^{-\frac{t}{9}}$ V

Find the value of i_2 .



$\frac{3}{7}$ A

-2 A

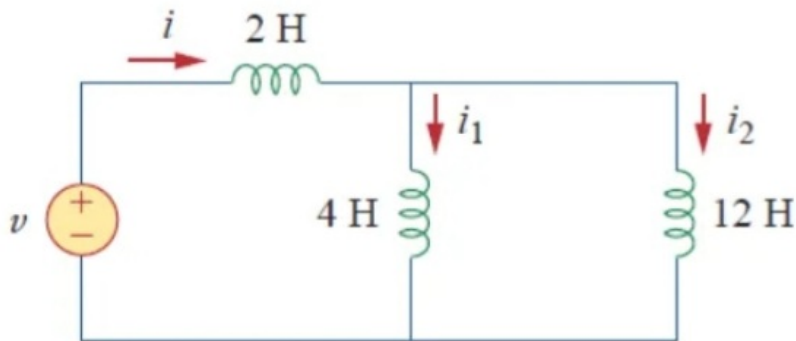
$-\frac{3}{7}$ A

$\frac{16}{7}$ A

$-\frac{16}{7}$ A

2 A

Let $i(0) = \alpha$ A and $i_2(0) = -4$ A. Find an expression for $i_2(t)$ when $v(t) = 400e^{-5t}$ V



- $i_2(t) = (-16e^{-5t} + \alpha)$ A
- $i_2(t) = -4e^{-5t}$ A
- $i_2(t) = -16e^{-5t}$ A
- $i_2(t) = (-16e^{-5t} + \beta)$ A
- $i_2(t) = 16e^{-5t}$ A
- $i_2(t) = (-4e^{-5t} + \beta)$ A

