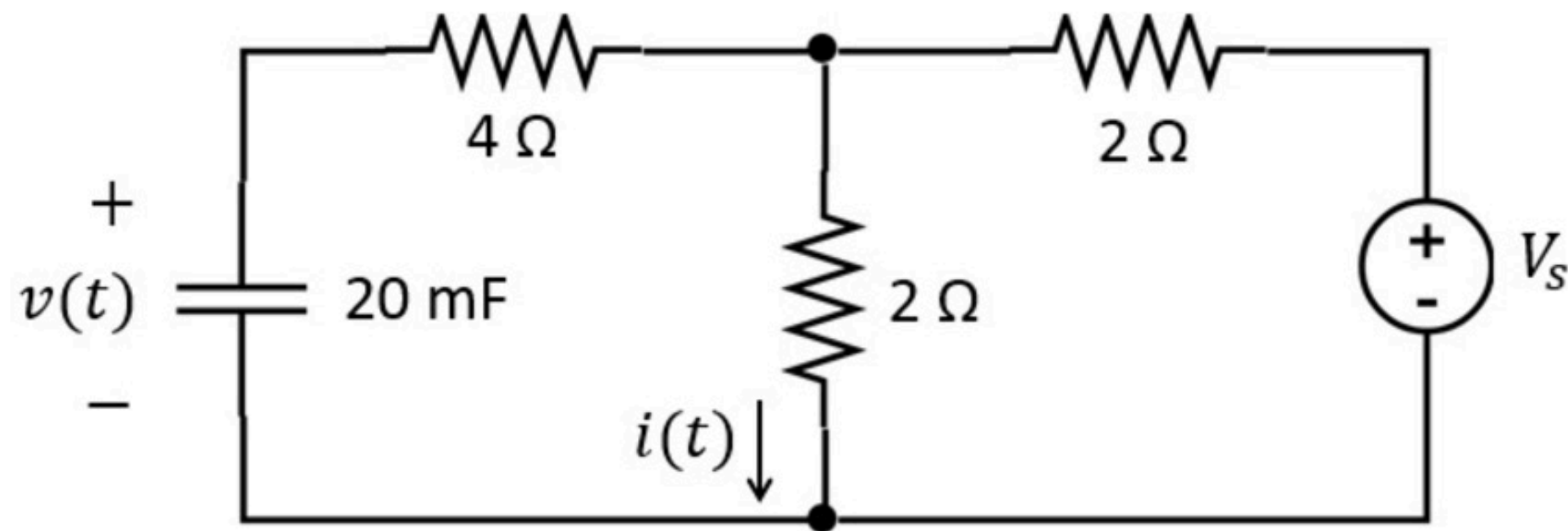# First order circuits 001

Given a voltage $v(t)$, find the current $i(t)$.

$$v(t) = A_1 + B_1 \cdot e^{-10t}$$

$$i(t) = A_2 + B_2 \cdot e^{-10t}$$

Given Variables:

A1 : 10 V

B1 : 10 V

Vs : 20 V

Calculate the following:

A2 (A) :

5 ✓

B2 (A) :

1 ✓