

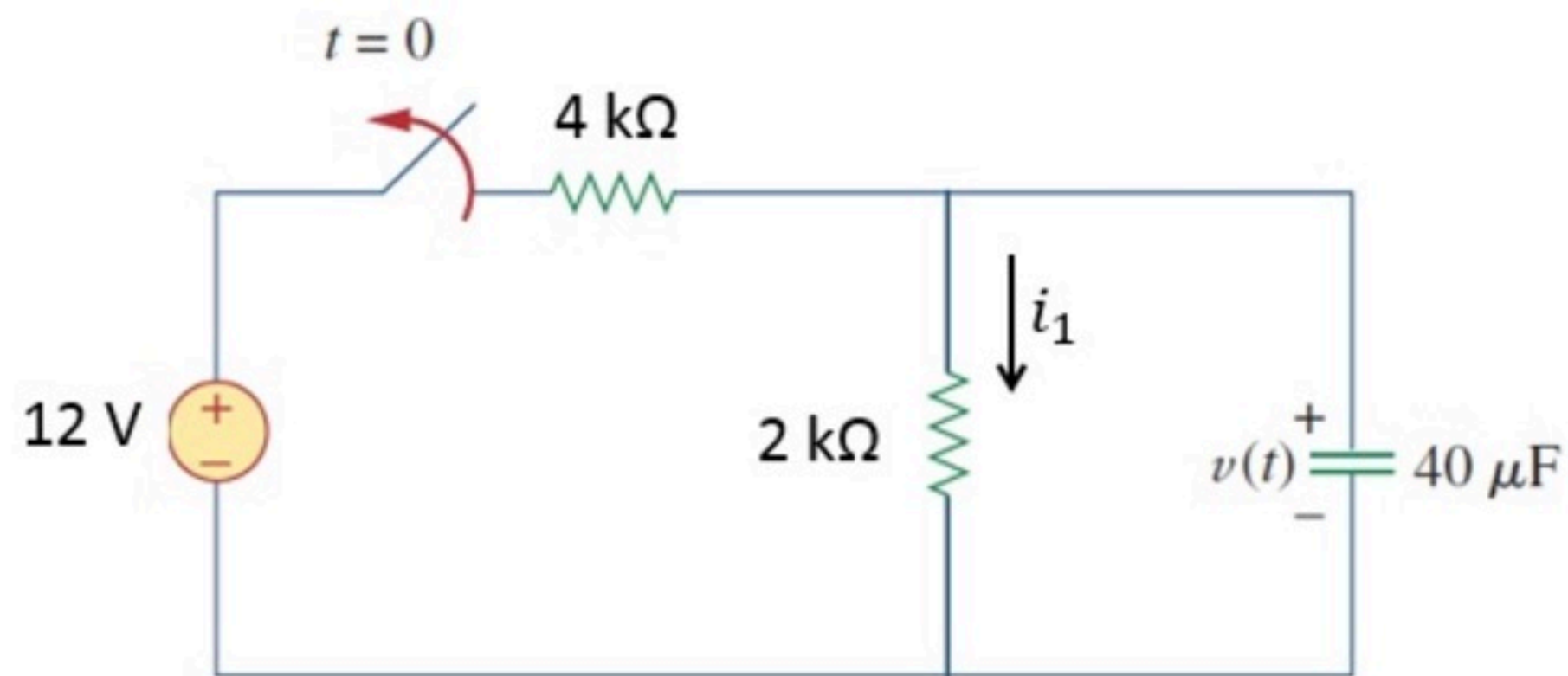
PP First order circuits 002

Unlimited Attempts.

The switch has been closed for a long time.

At time $t = 0$, the switch is opened.

Find $i_1(t) = D$ for $t = 0^-$
 $= A \cdot e^{-t/\tau} + B$ for $t > 0$



Given Variables:

...

Calculate the following:

D (mA) :

2



A (mA) :

2



B (mA) :

0



τ (ms) :

80



Hint: The capacitor voltage does not change instantaneously