

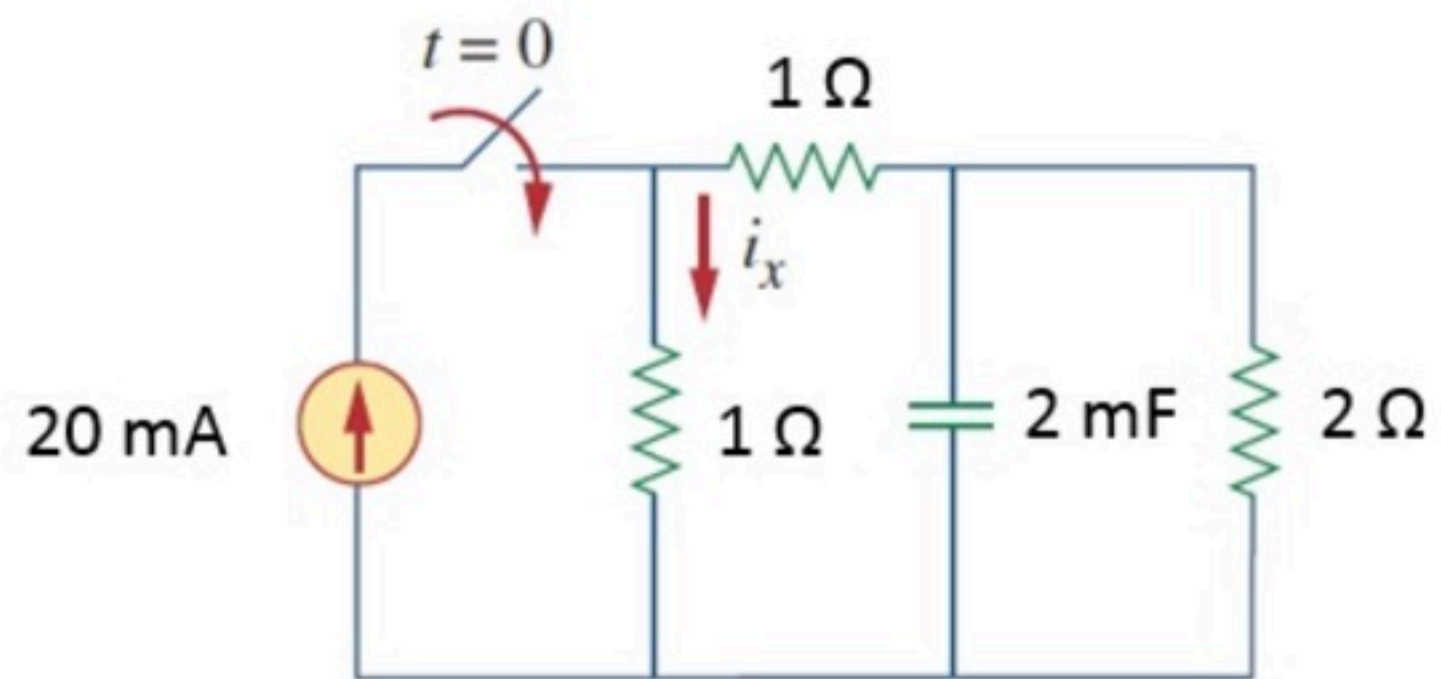
PP First order circuits 006

Unlimited Attempts.

The switch has been open for a long time.

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

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



Given Variables:

...

Calculate the following:

D (mA) :

0

✓

A (mA) :

-5

✓

B (mA) :

15

✓

τ (ms) :

2

✓

Hint: What is the capacitor voltage right after the transition?