PP Capacitors Inductors 004

The current through a 400 nF capacitor is $0.05e^{-\frac{t}{2\,\mu s}}$ A. The voltage across the capacitor at time $t = 0$ is 1 V.

What is the voltage v across the capacitor at time $t = \infty$?

Given Variables:

. : . .

Calculate the following:

v (V) :

1.25 ✓

Hint: Check the units