EE2005 Class Assignment 2

1.

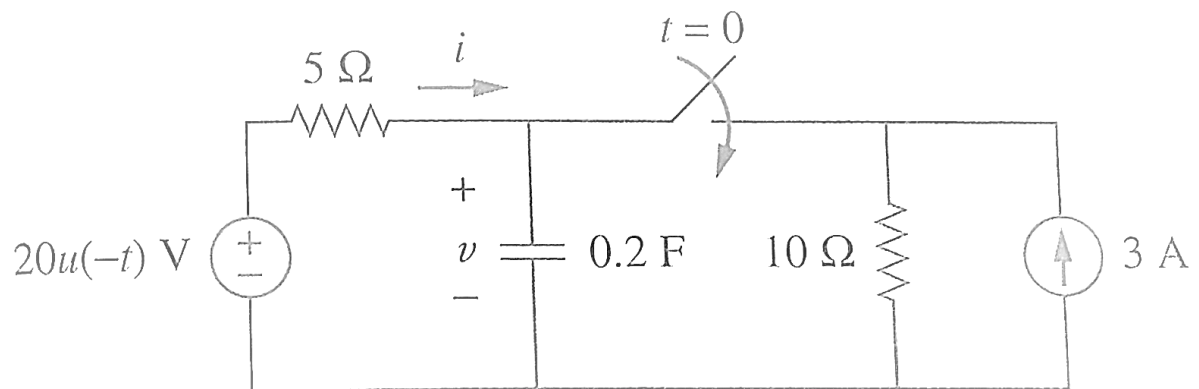

Figure 1

a) In Figure 1, the switch is closed at t=0. Note that u(t) is a step function. u(-t)=1 for t<0 and 0 for t > 0. Find *i(t)* when t < 0.

b) For the circuit in Figure 1, find *v(t)*, unit in V, when t < 0.

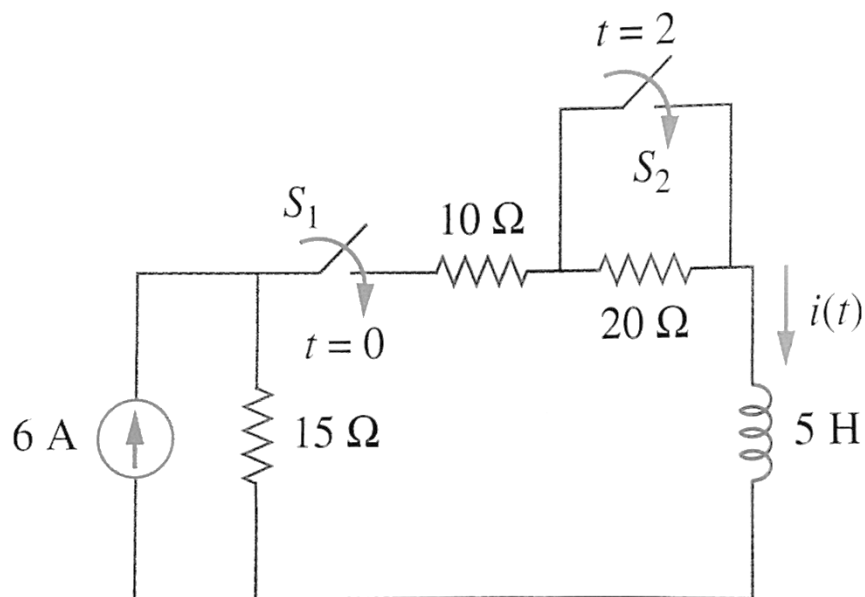c) For the circuit in Figure 1, find *i(t)* and *v(t)* for t > 0.

2.

Figure 2

a) In Figure 2, switch S_1 is closed at t=0, and switch S_2 is closed at t=2s. Find i(1), in A.

b) For the circuit in Figure 2, find i(3), in A.