Chapter 4 AC circuit

1. Given the sinusoidal voltage find: (a) the amplitude Vm, (b) the period T, (c) the frequency f.
2. Express the following functions in cosine form:

(1)

(2)

1. For the following a pair of sinusoid, determine which one leads and by how much.
2. Find current i in the circuit of Fig.4-1, when V.

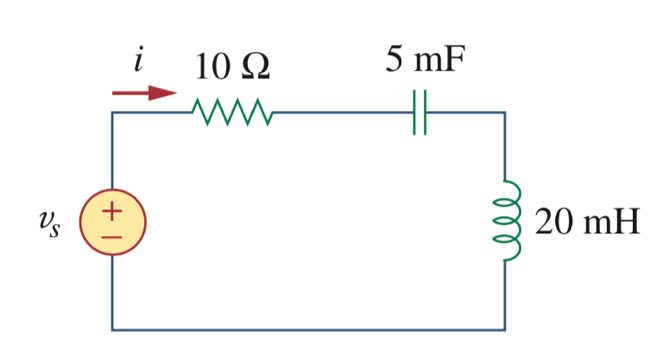


Figure 4-1

1. Calculate the capacitor voltage for t < 0 and t > 0 in Figure 4-2.

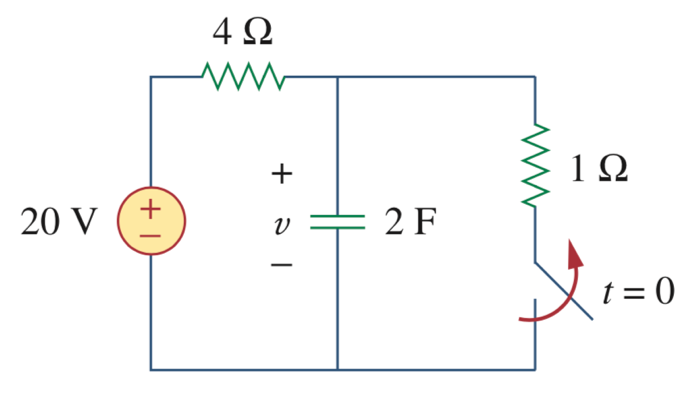


Figure 4-2