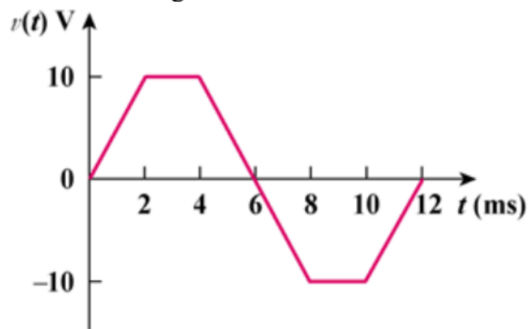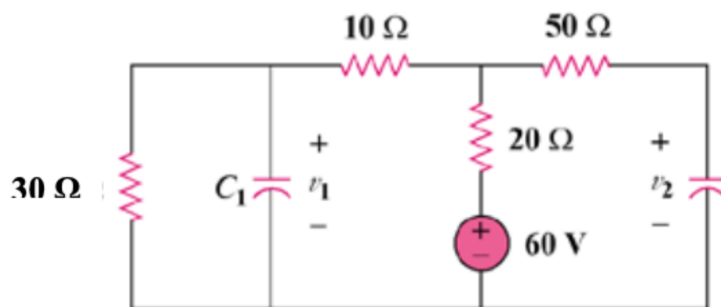1.

The voltage waveform in Fig. 6.46 is applied across a 30-μF capacitor. Draw the current waveform through it.

2.

Find the voltage across the capacitors in the circuit of Fig. 6.49 under dc conditions.
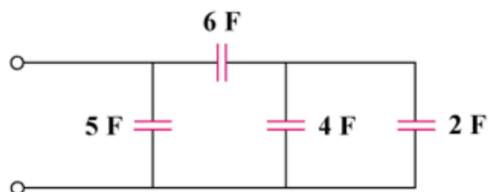

3.

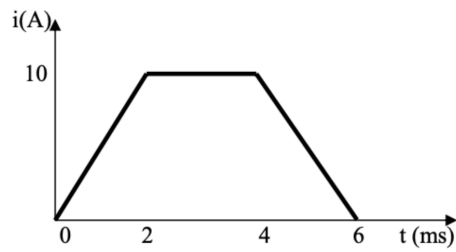Determine the equivalent capacitance for each of the circuits in Fig. 6.51.
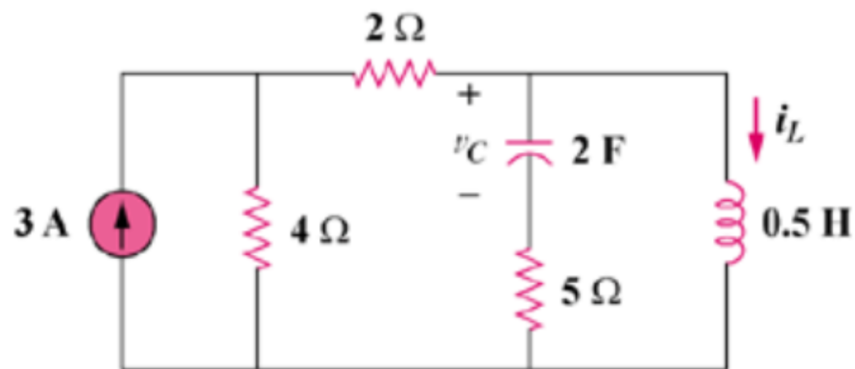

(a)

(b)

4.

The current through a 5-mH inductor is shown in Fig. 6.66. Determine the voltage across the inductor at t=1,3, and 5ms.

5. Under DC conditions, find energy and voltage of capacitor and inductor.

6.

Find L_{eq} at the terminals of the circuit in Fig. 6.75.