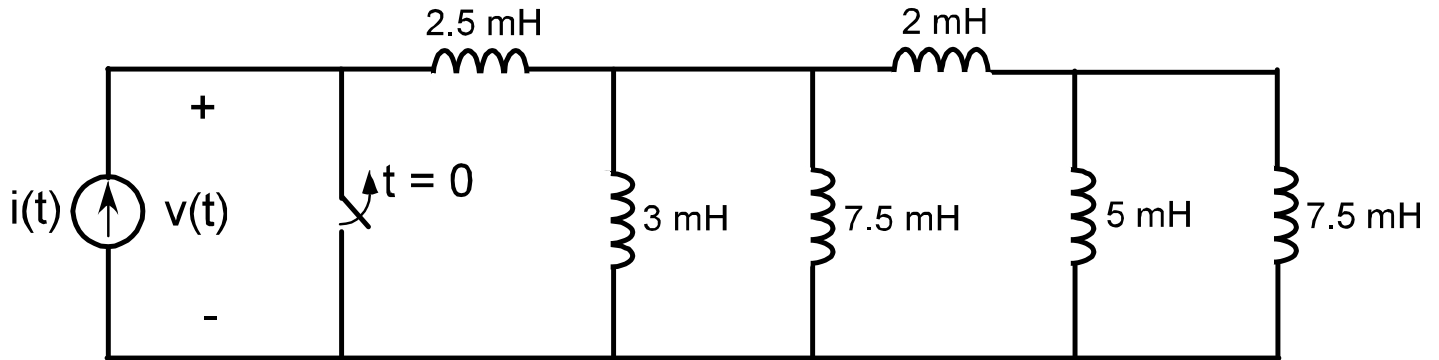


Homework Set #2
Textbook: Chapter 6.3
Coverage: Capacitors and Inductors in Series and Parallel

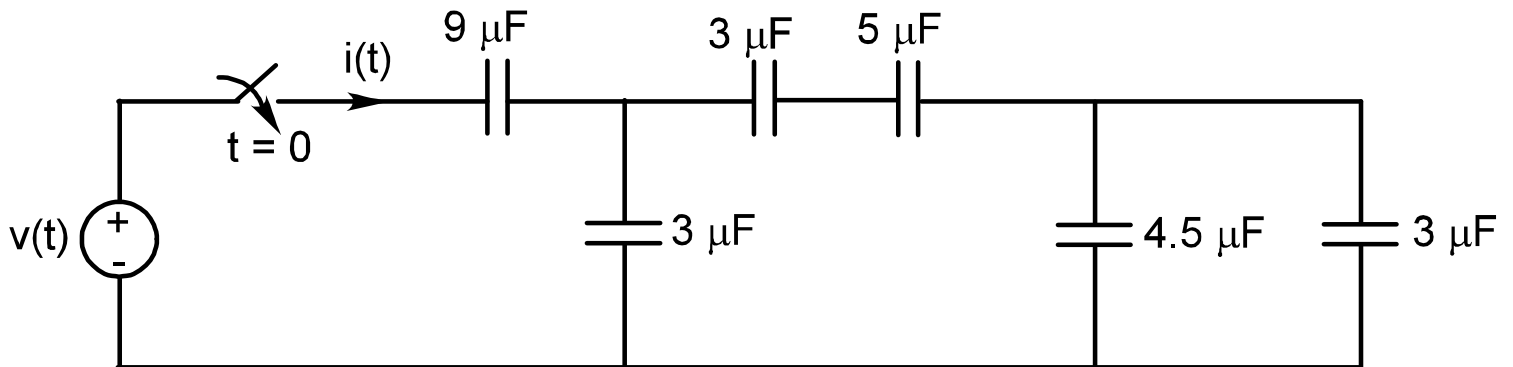
DUE Thursday September 7, 2017

1.
 - a) For the circuit shown below determine the value of a single equivalent inductor that can be placed across the source.
 - b) Assume the answer to part (a) is 3 mH (this is not the answer to part a) what would be the energy stored when $i(t) = 400$ mA?



2. Problem 6.25 (part e = 60 J, part f = 50 J)

3.
 - a) For the circuit shown below determine the value of a single equivalent capacitor that can be placed across the source.
 - b) Assume the answer to part (a) is 5 μF (this is not the answer to part a) what would be the energy stored when $v(t) = 100$ V?



4. Problem 6.31