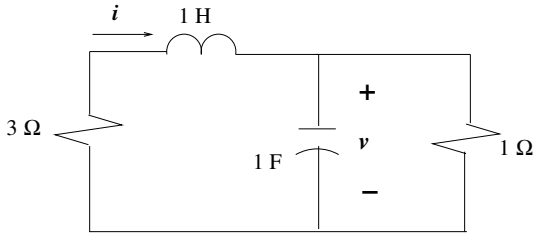
EE 211 - Homework 14

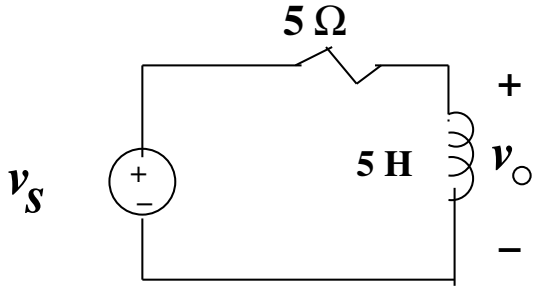
Dec. 2, 2019

Name _____

1. For the series-parallel circuit shown in the figure below, find $v(t)$ given that $v(0) = 0$ V and $i(0) = 1$ A.



2. For the circuit shown in the figure below, suppose that $v_s(t) = 10\cos(2t) + 10\sin(2t)$ V, find $i(t)$.



3. (a) Express the following as a single complex number in exponential form

$$\frac{20(1+j)}{4+j3}e^{-j30^o}$$