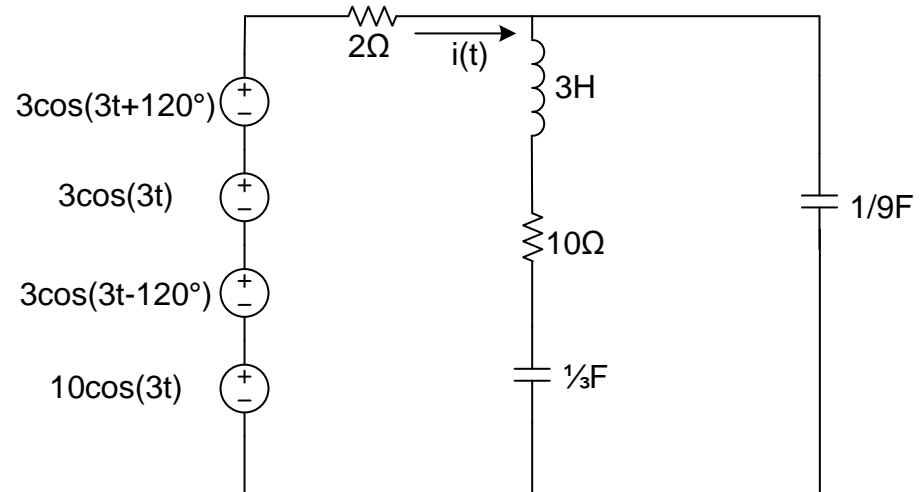1.   Simplify the following circuit to a single voltage source and impedance and solve
     for i(t).

2.   Find the current i(t).