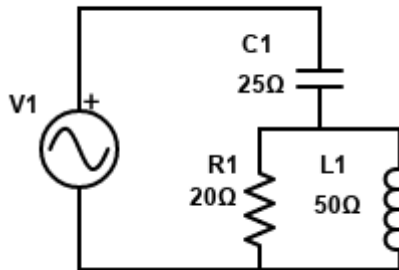


# EN-3212 Electronics

## AC Analysis Part 1

1. Analyze the circuit shown below given  $V_1 = 150V \angle 20^\circ$ .



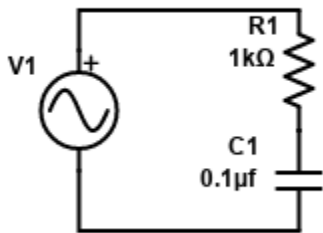
# EN-3212 Electronics

## AC Analysis Part 1

Note that the circuits in the next two examples are exactly the same and that the only thing that changes about the source is the frequency.

When you're done with 2 and 3, please look at how the voltage drops across the resistor and the capacitor changed.

2. Analyze the circuit below  $V_1 = 170V @ 0^\circ$  and 60Hz.



# EN-3212 Electronics

## AC Analysis Part 1

3. Analyze the circuit below  $V_1 = 170V @ 0^\circ$  and  $5000Hz$ .

