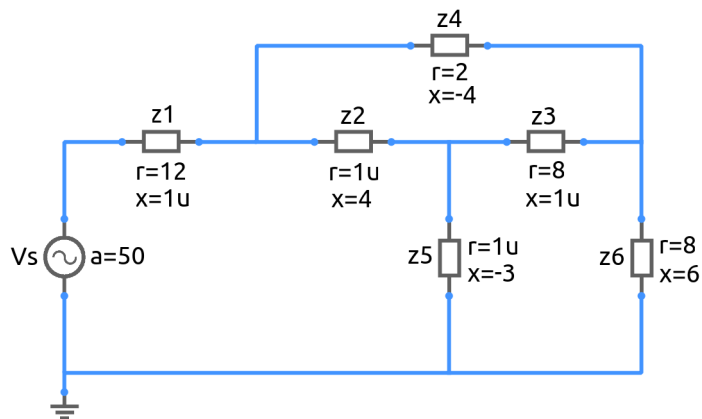


## ee101\_phasors\_3.sqproj



### Exercise Set

For the circuit shown in the figure, assume sinusoidal steady state.

1. Find the current through each component using mesh analysis. Ignore small  $R$  and  $X$  values ( $1\mu\Omega$ ).
2. Find the average power absorbed or delivered by each element. Verify that the total average power absorbed is equal to the total average power delivered.
3. Compare your values with simulation results.
4. Write an expression for each current in the time domain.