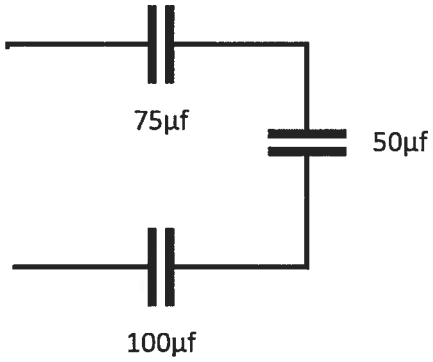
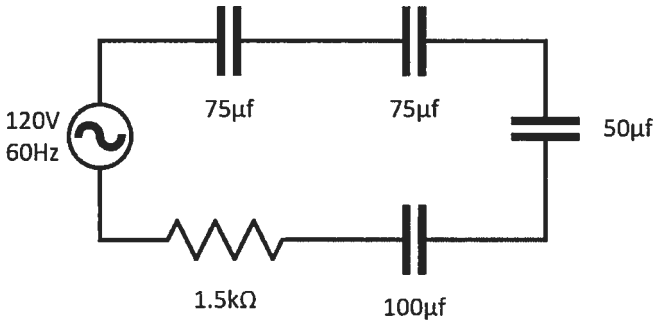
Homework- AC II Theory 2/8/2019 Rasmussen Name_____

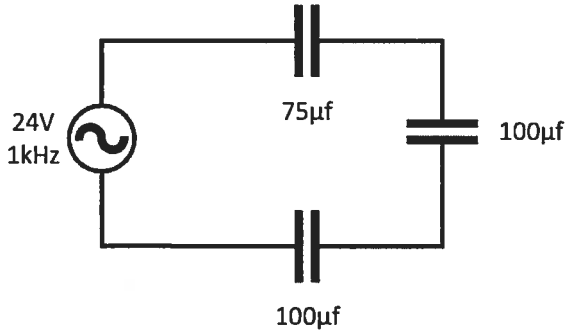
Review Chapter 6 in the book

1. What is the total capacitance for the following circuits? *Write out the formula and solve*

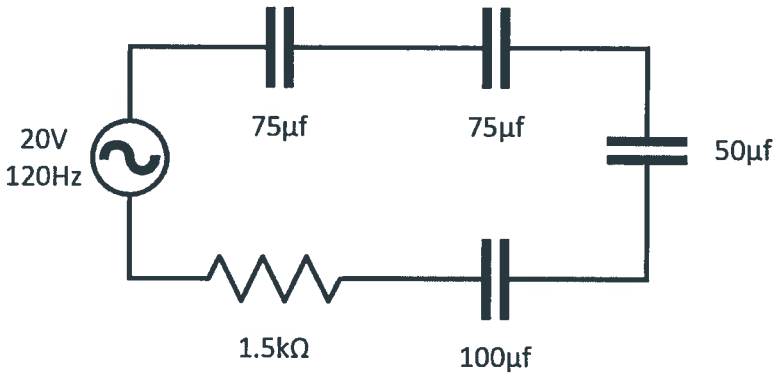


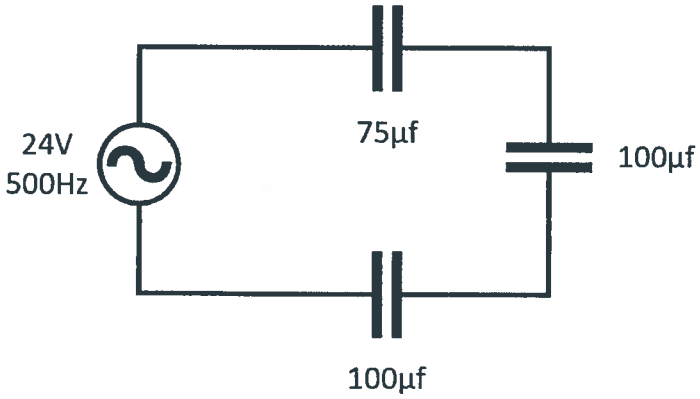


2. What is the total opsition to current in this circuit? *Write out the formula and solve*



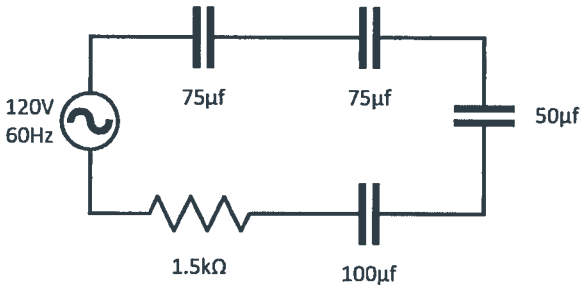
3. Solve for Capactiance reactance for the following circuits. *Write out the formula and solve*



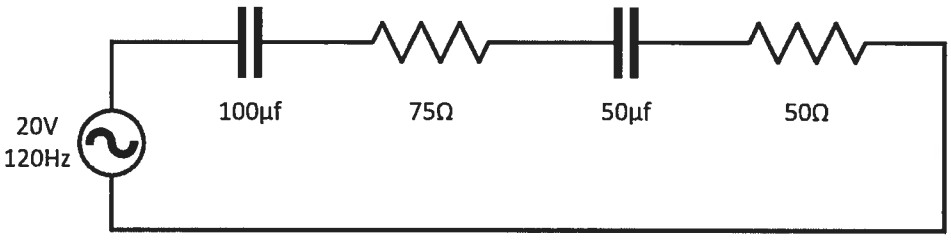


4. A circuit has one 100µf capacitors and two resistors, one 1.5kΩ and one 1kΩ. What is the total opposition to current (amps) in ohms in a 50V 200Hz circuit? *Write out the formula and solve*

5. Solve for Z for the following circuit. *Write out the formula and solve*

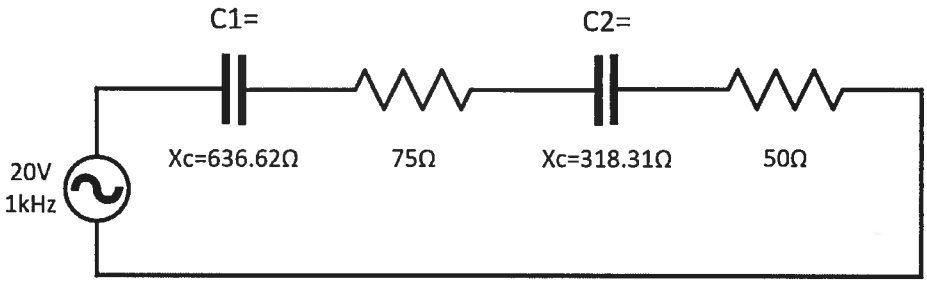


6. What is the current that is flowing through the 75Ω resistor? *Write out the formulas and solve*



7. In the circuit above, what is the measured voltage across the 50Ω resistor? *Write out the formulas and solve*

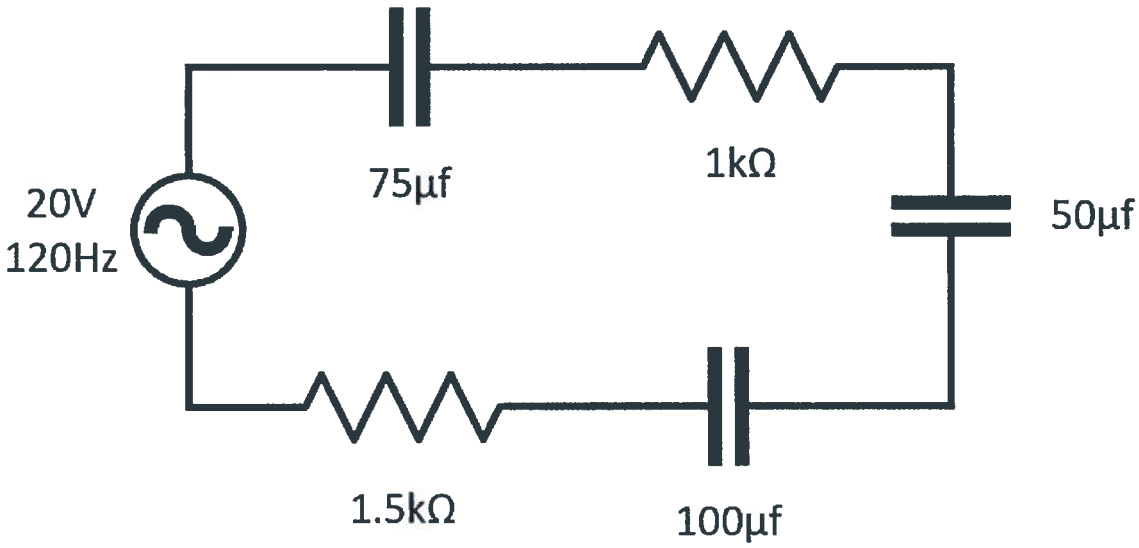
8. What are the values for C1 and C2? *Write out the formulas and solve*



9. In the circuit above, what is the value of the current flowing across the 50Ω resistor? *Write out the formulas and solve*

10. In the circuit above, what is the value of the voltage measured across C1 and C2? *Write out the formulas and*

11. In the circuit below, solve for the values in table. *Write out the formulas and solve*



Component	Voltage	Current
75µf		
1kΩ		
50µf		
100µf		
1.5kΩ		
Power Factor for this circuit		