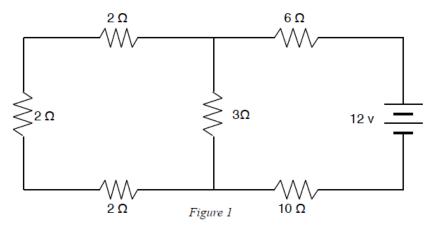
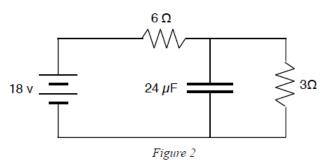
Name	Date	Period	
	Unit 14		
	Circuits Practice Test		
1.	What is meant when someone says the circuit is "open" or "closed"?	Form P	
2.	Where do the charges come from in an electric circuit?		
3.	In a circuit, what is the purpose of a. a battery?		
	b. a resistor?		
4.	Do batteries supply AC or DC? What is the difference between them?		
5.	How much power is dissipated by a 500 $\Omega$ resistor with a current of 0.04 through it?	nt of 0.040 A running	
6.	Draw a series circuit containing a 6-v battery, a 3- $\Omega$ resistor, a 6- $\Omega$ resistor.	or, and another	
	a. How much current is flowing through the 3- $\Omega$ resistor?		
	b. How much power is dissipated by the $3-\Omega$ resistor?		
7.	Draw a circuit using the same battery and resistors as above, but with every parallel.	erything in	
	a. How much current is flowing through the 3- $\Omega$ resistor?		
	b. How much power is dissipated by the $3-\Omega$ resistor?		
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- 8. If the 3- $\Omega$  resistors in Questions 6 and 7 were actually 3- $\Omega$  light bulbs, which one would be brighter? Explain
- 9. Use the information given in the circuit diagram in Figure 1 below to find the following:



- a. How much current flows through the battery?
- b. What is the voltage drop across the 3- $\Omega$  resistor?
- c. What is the power dissipated by one of the 2- $\Omega$  resistors?
- 10. After the battery has been connected for a reasonably long time to the circuit shown in Figure 2 below...



- a. What is the current in the  $6-\Omega$  resistor?
- b. What is the voltage drop across the capacitor?
- c. What is the charge on the capacitor?