Electricity: Circuits with Capacitors

(1) This is a preview of the draft version of the quiz

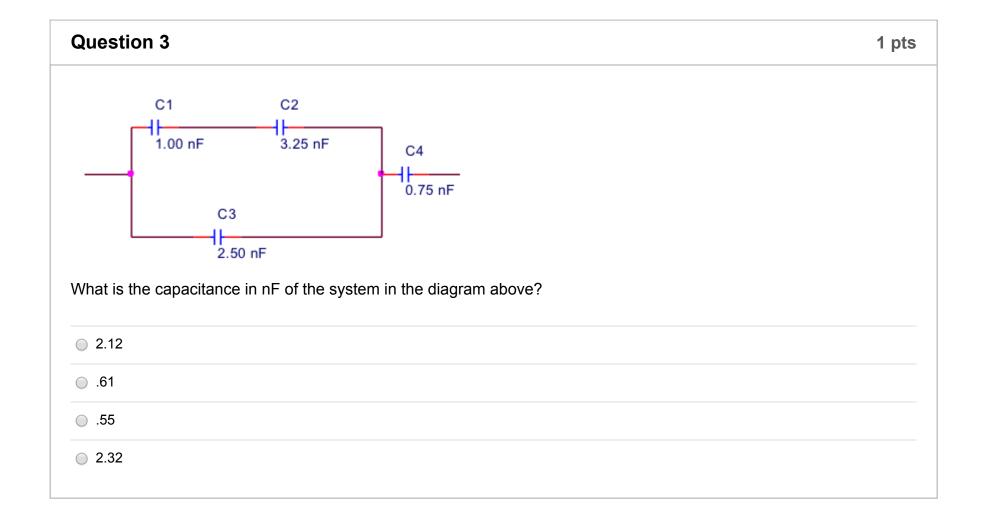
Started: Nov 4 at 10:56am

Quiz Instructions

Question 1	1 pts
Four capacitors all with a capacitance of 2 mF are connected in parallel. What is the capacitors?	capacitance in mF of the system of
8	
.5	
○ 1	
• 4	

Question 2	1 pts
Consider two capacitors both with a capacitance of 3 F. Which of the following combinations will provide the gre amount of charge on each capacitor?	eatest

\bigcirc	The capacitors connected in parallel to a 9 V battery.
\bigcirc	The capacitors connected in series to a 9 V battery.
\bigcirc	The capacitors connected in series to a 12 V battery.
\bigcirc	The capacitors connected in parallel to a 12 V battery.

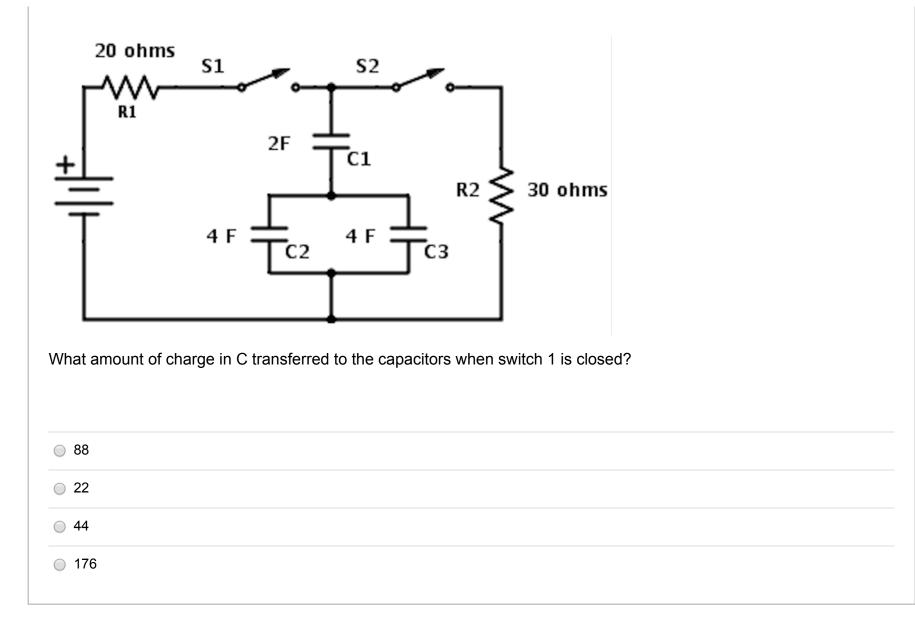


Question	4
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A 150.0pF capacitor is initially charged with 750.0pC. The ends of a 10.0Ω resistor are then connected to the ends of the capacitor. What is the initial power in Watts dissipated by the resistor?

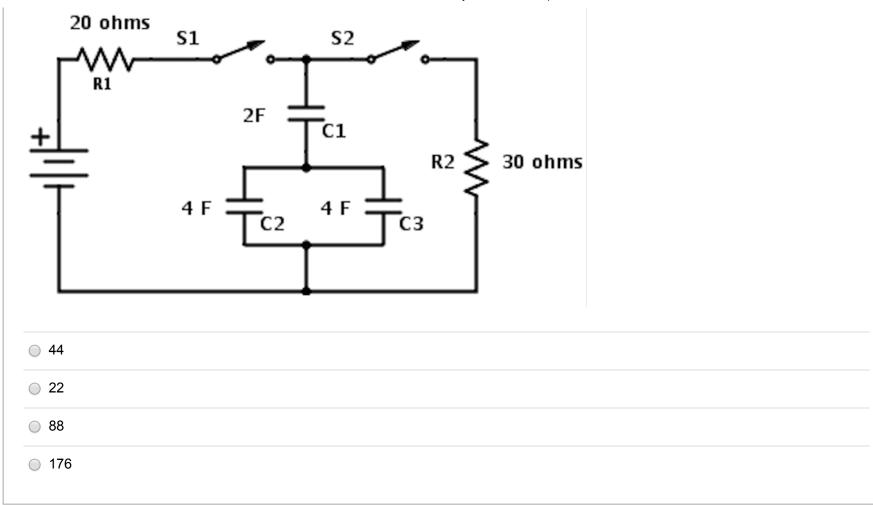
○ 250			
40			
0 7.5			
2.5			

Question 5	1 pts	

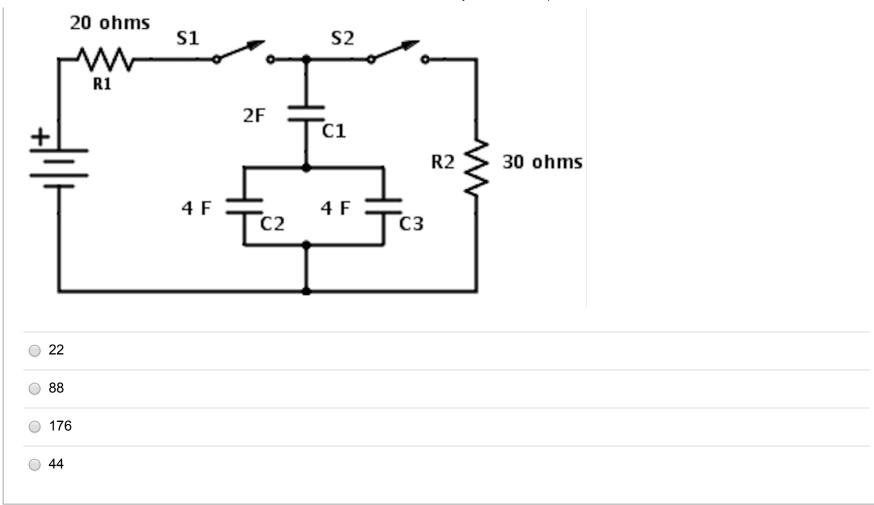


Question 6	1 pts
What is the charge in C on C1 after the switch has been closed for a length of time?	

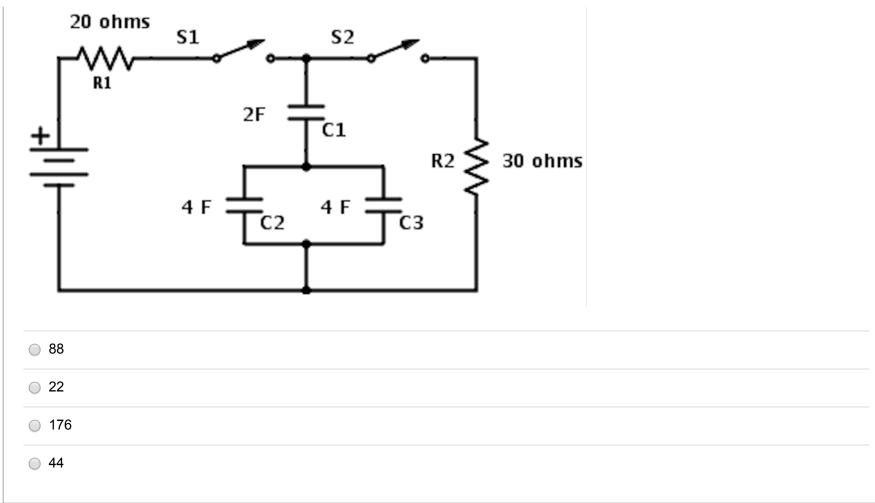
https://dvusd.instructure.com/courses/19549/quizzes/386514/take?preview=1



Question 7	1 pts
What is the C charge on C3?	



Question 8	1 pts
What is the voltage across C2?	



Question 9	1 pts
What is the amps of current in the circuit when switch 1 is closed and switch 2 is open?	
0 12	
7.8	

0 5.5			
0 1.5			

Question 10	1 pts
After a long time, switch 1 is opened and switch 2 is closed. What is the switch 2 has closed?	amps of current in the circuit immediately after
3.7	
5.5	
0 11	
6.2	

Not saved	Submit Quiz