RC Circuit Powered by DC

Step 1: Fill in the voltage of the battery, the resistance of the resistor, and the capacitance of the capacitor.



Step 2: Calculate the current that flows through the circuit when the switch is first thrown. Show your work below. Explain why you used the numbers that you did in making this calculation.

Step 3: Calculate the energy stored on the capacitor after a significant amount of time has passed. Show your calculation and explain why you used the numbers that you did. Enter your answers into your program to check that you did everything properly

Step 4: What is the current in the circuit like after the switch has been closed for a significant length of time? Explain your answer