Physics 2135   **Special Homework Assignment #6**

For the circuit shown $R = 15$ kΩ, $C = 6$ μF, and $\Delta V = 30$ V. Initially the capacitor is uncharged. The switch S is then closed and the capacitor begins to charge. After the switch is closed, how much time will elapse before the current through the resistor is one-third of its maximum value? What is the charge on the capacitor at this time?