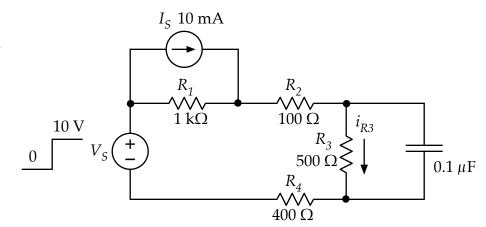
Name_____

For the circuit shown, the voltage source jumps abruptly from 0 to 10 V at t = 0. Find the expression of $i_{R3}(t)$ for t > 0. Find the time at which the current has gone half-way from its initial value to its final value.



Hints: When $V_S = 0$, it behaves like a short-circuit. Also, note how i_{R3} relates to v_C .

 $i_{R3}(t) = \underline{\hspace{1cm}}$

t (half-way) = _____