

# 23S-EC ENGR-3-LEC-1 Quiz - 3

SANJIT SARDA

TOTAL POINTS

**6 / 10**

QUESTION 1

1 Q1 **6 / 10**

- **0 pts** Correct

✓ - **1 pts** *Wrong final answer*

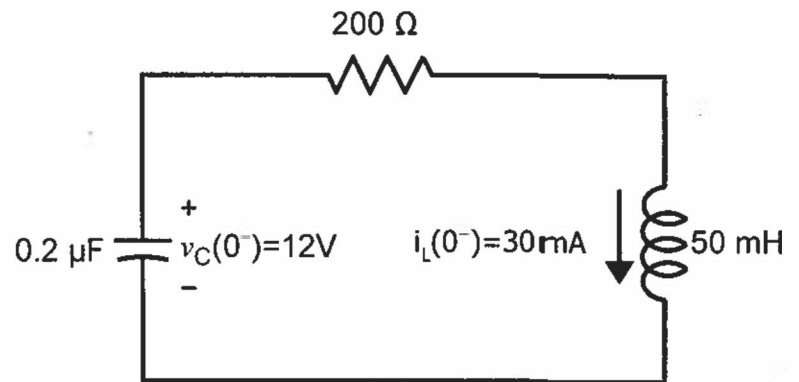
✓ - **3 pts** *Wrong/incomplete approach*

- **10 pts** Blank

ECE3 Spring 2023  
Quiz 3

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Using what you know about inductors and capacitors in the interval  $0^-$  to  $0^+$ , find the voltage across the resistor  $v_R(0^+)$ .



$$V_R(0^+) = 12V$$

$$V_C(0^-) = 12V$$

$$\cancel{V_I(0^+)} = V_I = L \frac{di}{dt}$$

$$\therefore V_I(0^+) = 0$$

$$\therefore V_C(0^+) = V_R(0^+) = 12V$$

