23W-EC ENGR-10-LEC-1 Hw #1

SANJIT SARDA

TOTAL POINTS

48 / 50

QUESTION 1

1 Problem 1 5 / 5

√ - 0 pts Correct

QUESTION 2

Problem 29 pts

2.1 (a) 1.5 / 3

√ - 1.5 pts Wrong Sign

2.2 (b) 3/3

✓ - 0 pts Correct

2.3 (c) 3/3

✓ - 0 pts Correct

QUESTION 3

Problem 3 20 pts

3.1 (a) 3/3

✓ - 0 pts Correct

3.2 (b) 3/3

✓ - 0 pts Correct

3.3 (c) 3 / 3

✓ - 0 pts Correct

3.4 (d) 3 / 3

√ - 0 pts Correct

3.5 (e) 3/3

✓ - 0 pts Correct

3.6 **(f) 4.5 / 5**

√ - 0.5 pts Partially Correct Explanation

QUESTION 4

Problem 4 10 pts

4.1 (a) 5 / 5

√ - 0 pts Correct

4.2 (b) 5 / 5

√ - 0 pts Correct (based on answer in part a)

QUESTION 5

5 Problem 5 6 / 6

ECE 10: HW1

$$i(t) = \begin{cases} \frac{1}{2}e^{-5t}, & t \ge 6 \\ 0, & t < 6 \end{cases}$$

$$Q = \int_{-\infty}^{\infty} |Adt| = \int_{-\infty}^{\infty} e^{-5t} dt + \int_{-\infty}^{\infty} dt = -\frac{1}{10}e^{-5t} dt = -$$

1 Problem 1 5 / 5

ECE 10: HW1

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2.1 (a) 1.5 / 3

✓ - 1.5 pts Wrong Sign

ECE 10: HW1

$$i(t) = \begin{cases} \frac{1}{2}e^{-5t}, & t \ge 6 \\ 0, & t < 6 \end{cases}$$

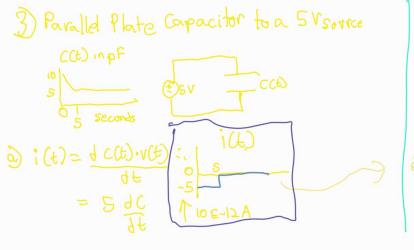
$$Q = \int_{-\infty}^{\infty} |Adt| = \int_{-\infty}^{\infty} e^{-5t} dt + \int_{-\infty}^{\infty} dt = -\frac{1}{10}e^{-5t} dt = -$$

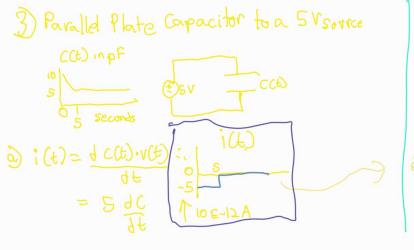
2.2 **(b)** 3 / 3

ECE 10: HW1

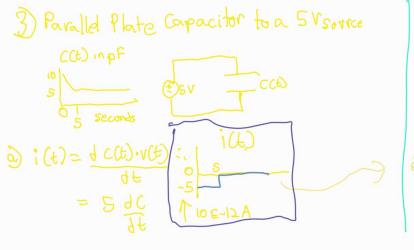
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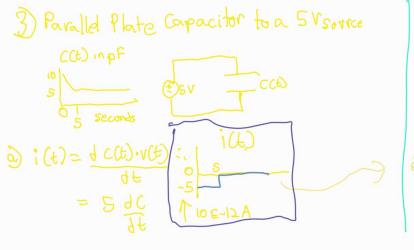
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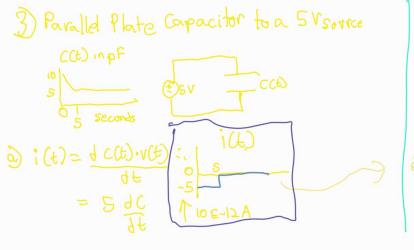


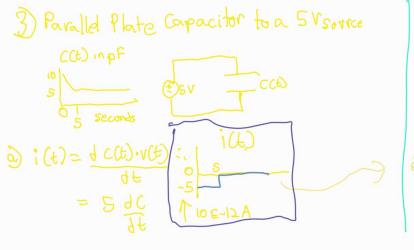
3.2 **(b)** 3 / 3



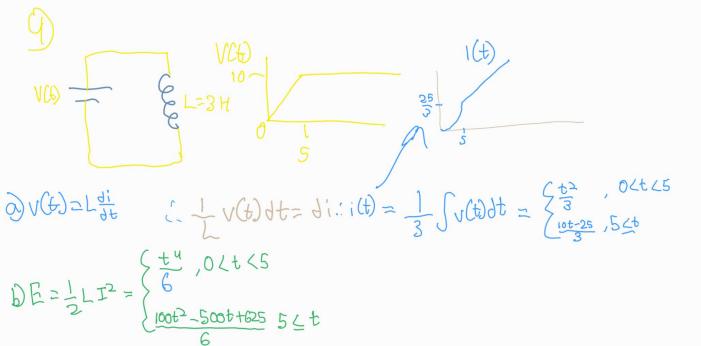


3.4 **(d) 3 / 3**

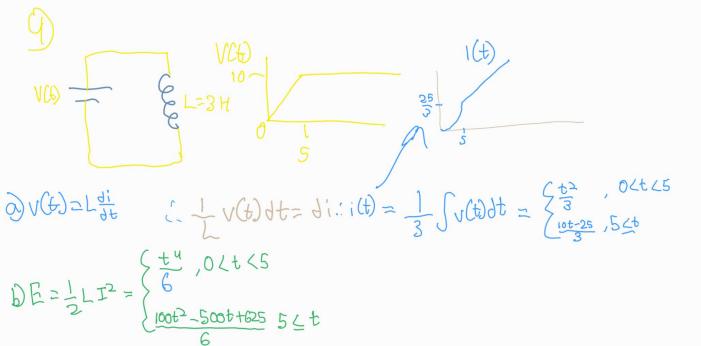




√ - 0.5 pts Partially Correct Explanation



4.1 (a) 5 / 5



4.2 **(b)** 5 / 5

√ - 0 pts Correct (based on answer in part a)

Stree Current is going against

5 Problem 5 6 / 6