

23S-EC ENGR-3-LEC-1 Quiz 5

SANJIT SARDA

TOTAL POINTS

10 / 10

QUESTION 1

1 Question 1 8 / 8

✓ - 0 pts Correct

- 2 pts Partially Incorrect or arithmetic errors

- 4 pts Mostly incorrect

- 8 pts Incorrect

QUESTION 2

2 Question 2 2 / 2

✓ - 0 pts Correct

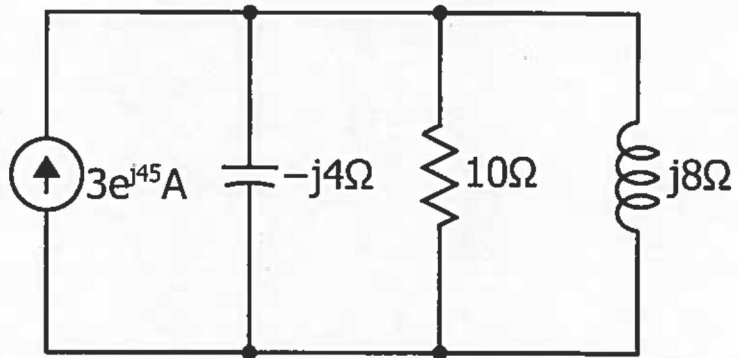
- 1 pts Partially Incorrect

- 2 pts Incorrect

EE3 Spring 2023
Quiz 5

Name Sardar Sanjit | Sanjit
Family Name Given Name
UID 805964031

1. Find Z_{tot} experienced by the current source. Put your answer in Eulerian Polar form.
2. The car leaving the track generates the same fused value as what?



$$\textcircled{1} Z_{\text{tot}} = -j4 \parallel 10 \parallel j8 = \frac{-j4 \cdot j8}{8j - 4j} \parallel 10 = -8j \parallel 10 = \frac{-8j \cdot 10}{10 - 8j}$$

$$= \frac{40j}{4j - 5} \approx 6.24e^{-.896j}$$

$$\therefore Z_{\text{tot}} = 6.24e^{-.896j} \Omega$$

$\textcircled{2}$ ☐ error,

