

Hard

Assistant Engineer (Electrical), Class 2025

Building Department

What is the response of the feedback function with open loop transfer function $G(s) = 4/s(s + 5)$ and input is input step?

A

1 $\frac{1}{3}(4e^{-(t)} - e^{-(4t)})$

Correct

B

1 $\frac{1}{2}(6e^{-(t)} - e^{-(4t)})$

C

1 $\frac{1}{3}(6e^{-(t)} - e^{-(4t)})$

D

1 $\frac{1}{2}(4e^{-(t)} - e^{-(4t)})$

Correct Answer: A

Full Detailed Explanation

Open the live question URL below to read the full explanation, related links and practice flow.

Open live question on website:

<https://sarkariresultout.com/pyq/gu/question/gpsc-ae-electrical-q211-unity-feedback-step-response/>