

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/hi/question/gpsc-ae-electrical-q211-unity-feedback-step-response/>