1

GATE ASSIGNMENT 2

MANIKANTA VALLEPU AI20BTECH11014

Download latex-tikz codes from

https://github.com/AI20BTECH11014/EE3900-Linear-Systems-and-Signal-processing/blob/ main/Gate_Assignment_2/ Gate_Assignment_2.tex

1 EC 2007 Q.16

If the Laplace transform of a signal y(t) is

$$y(s) = \frac{1}{s(s-1)}$$

then its final value is

- 1) -1
- 2) 0
- 3) 1
- 4) unbounded

2 Solution

s=1 is right s-plane pole. As the system is not lining left half of s-plane, the system is unstable. Hence, it is unbounded. ∴ option 4 is correct.