

1. (100 points) An open-loop transfer function is given as,

$$G(s) = \frac{1}{s^3 + 2.0s^2 + 3.20201s + 4.40404}$$

which of the following PI-controllers stabilizes the system in a closed-loop unit feedback structure?

- A. $F(s) = 1.101 + \frac{1.20201}{s}$
- B. $F(s) = -0.899 + \frac{2.20201}{s}$
- C. $F(s) = -0.899 + \frac{1.101}{s}$
- D. $F(s) = -5.899 + \frac{1.101}{s}$
- E. $F(s) = -2.601 + \frac{0.27524}{s}$

Q	A
1	E