

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

$$G(s) = \frac{1}{s^3 + 2.0s^2 + 3.0s + 4.0}$$

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

- A. $F(s) = 0.5 + \frac{1.0}{s}$
- B. $F(s) = -10.0 + \frac{1.0}{s}$
- C. $F(s) = -10.0 + \frac{2.5}{s}$
- D. $F(s) = 0.5 + \frac{2.5}{s}$
- E.** $F(s) = -2.5 + \frac{0.5}{s}$

Q	A
1	E