

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

$$G(s) = \frac{1}{s^3 + 2.0s^2 + 3.22221s + 4.44444}$$

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

A. $F(s) = -9.77779 + \frac{1.1111}{s}$

B. $F(s) = -2.6111 + \frac{0.55554}{s}$

C. $F(s) = 0.83333 + \frac{1.1111}{s}$

D. $F(s) = 0.72221 + \frac{2.6111}{s}$

E. $F(s) = -9.66667 + \frac{2.6111}{s}$

Q	A
1	B