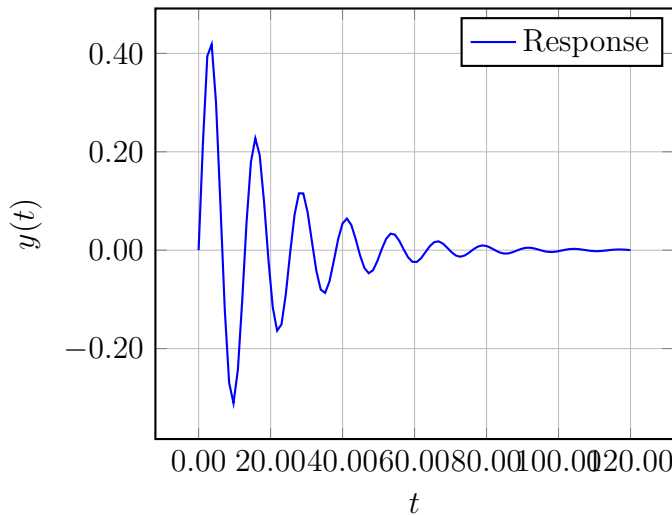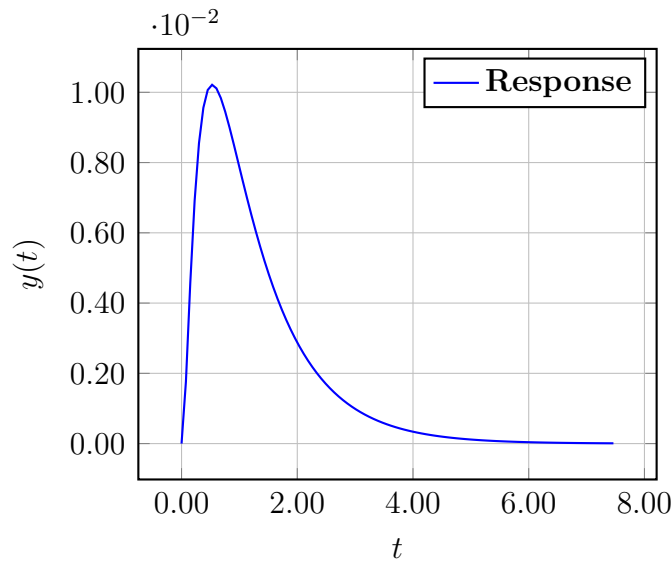1. (50 points) An open-loop transfer function is given as,

$$G(s) = \frac{1}{s^3 + 2.0s^2 + 3.0s + 7.0}$$

which of the following PI-controllers stabilizes the system in a closed-loop unit feed-back 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. $F(s) = -2.5 + \frac{0.5}{s}$

2. (50 points) Which of the following does not overshoot?

A.

B.

Q	A
1	E
2	A