EE 475 Quiz #10

Name: Score

Grader:

1. Use the best of , , n , d and numbers to fill in the spaces below.
2. Settling time for +-2% tolerance is approximately equal to ,
3. Rise time is approximately equal to ,
4. Percentage overshoot is approximately 5% for = ,
5. Percentage overshoot is approximately 10% for = ,
6. Percentage overshoot is approximately 16% for = ,
7. Percentage overshoot is approximately 25% for = ,
8. Actual oscillation frequency is exactly equal to ,
9. Peak time formula for prototype 2nd order system is ,
10. If a system has ess = 0.1 for unit step input,
11. its type =\_\_\_\_ and the finite nonzero error constant is \_\_\_\_\_= ,
12. To make ess to any step to zero, what controller must be used: .