EE 475 Quiz #9

Name: Score

Grader:

1. Use the best one out of , , n , and d to fill in the spaces below.

* Settling time is inversely proportional to
* Rise time is inversely proportional to
* Percentage overshoot is most directly determined by
* Oscillation frequency is most directly governed by
* Peak time is inversely proportional to
* Delay time is inversely proportional to

1. The target range for  of the dominant pole of a well-designed control system is:
2. Percentage overshoot Mp is closely related  and the following are good approximation:
   * For =0.7, overshoot Mp ≈ %
   * For =0.6, overshoot Mp ≈ %
   * For =0.5, overshoot Mp ≈ %