EE475 Quiz #6

Name: Score

Grader:



1. For the under-damped prototype 2nd order system, a peak time formula is:
   1. Tp = .
2. Peak value formula is:
   1. ymax = .
3. Real systems are not prototype 2nd order systems, but the following approximate expressions still work well:
   1. For  = 0.7, percentage overshoot Mp = .
   2. For  = 0.6, percentage overshoot Mp = .
   3. For  = 0.5, percentage overshoot Mp = .
   4. For  = 0.4, percentage overshoot Mp = .
   5. The step response rise time tr = .
   6. The +-1% settling time ts = .
   7. The +-2% settling time ts = .
   8. The +-5% settling time ts = .