EE475 Quiz #5

Name: Score

Grader:



1. For the under-damped prototype 2nd order system, express the following parameters in terms of pole *p*,
   1. n = ,  = .
2. Express the following parameters in terms of n and ,
   1.  = , d = .
3. Express the following parameters in terms of and d,
   1. n = ,  = .
4. The step response rise time is *approximately* given by tr = .
5. The +-1% settling time is *approximately* given by ts = .
6. The peak time is, in terms of n and , given by tp = .
7. The percentage overshoot, in terms of n and , is given by Mp = .