EE 475 Quiz #9

Name:	

- 1. Use ζ , σ , ωn , and ωd to fill in the spaces below.

- For a unity feedback control system with open loop transfer function Go(s),
 - 6. the position error constant $Kp = \lim_{s \to 0} G_0(s)$
 - 7. the velocity error constant $Kv = \frac{\lim_{N \to \infty} SG_0(S)}{N}$
 - 8. the acceleration error constant Ka = lim S² G₆(S)
- 3. In terms of these error constants,
 - 9. the steady state error due to a step input is e_{ss2step}= The
 - 10. the steady state error due to a ramp input is e_{ss2ramp}=_