ECE-320 Practice Quiz 8





1) The *gain crossover frequency used to determine the phase margin* for this system is best estimated as a) 0 rad/sec b) 1 rad/sec c) 1.8 rad/sec d) 12 rad/sec e) 100 rad/sec

- 2) The *phase crossover frequency* for this system is best estimated as
- a) 0 rad/sec b) 1.8 rad/sec c) 3 rad/sec d) 30 rad/sec e) 100 rad/sec
- 3) The phase margin for this system is best estimated as a) $+45^{\circ}$ b) -45° c) $+135^{\circ}$ d) -135°
- 4) The gain margin for this system is best estimated as a) +12 dB b) 12 dB c) ∞ dB d) -2 dB



5) The gain crossover frequency used to determine the phase margin for this system is best estimated as

a) 0 rad/sec b) 1 rad/sec c) 1.5 rad/sec d) 2 rad/sec e) 100 rad/sec

6) The phase crossover frequency for this system is best estimated as

a) 0 rad/sec b) 1 rad/sec c) 1.5 rad/sec d) 2 rad/sec e) 100 rad/sec

7) The phase margin for this system is best estimated as (a) $+30^{\circ}$ (b) -30° (c) $+60^{\circ}$ (d) -60°

8) The gain margin for this system is best estimated as (a) +5 dB (b) - 5 dB (c) ∞ dB (d) 0 dB





9) The gain crossover frequency used to determine the phase margin for this system is best estimated as

a) 0 rad/sec b) 5.5 rad/sec c) 7 rad/sec d) 15 rad/sec

- 10) The phase crossover frequency for this system is best estimated as
- a) 0 rad/sec b) 1 rad/sec c) 1.5 rad/sec d) 2 rad/sec e) none of these
- **11**) The phase margin for this system is best estimated as (a) $+70^{\circ}$ (b) -70° (c) $+135^{\circ}$ (d) -135°
- **12**) The gain margin for this system is best estimated as (a) +5 dB (b) 5 dB (c) ∞ dB d) 0 dB

Answers: 1-c, 2-c, 3-a, 4-a, 5-d, 6-c, 7-b, 8-b, 9-c, 10-e, 11-a, 12-c