ECE-320 Quiz 8



3) 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) 6 rad/sec d) 10 rad/sec e) 60 rad/sec

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

a) 0 rad/sec b) 1 rad/sec c) 6 rad/sec d) 10 rad/sec e) 60 rad/sec

- 5) The phase margin for this system is best estimated as (a) $+25^{\circ}$ (b) -25° (c) $+45^{\circ}$ (d) -45°
- **6**) The gain margin for this system is best estimated as (a) +8 dB (b) 8 dB (c) ∞ dB (d) 0 dB

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

a) 0 rad/sec b) 10 rad/sec c) 13 rad/sec d) 32 rad/sec

- 8) The *phase crossover frequency* for this system is best estimated as
- a) 0 rad/sec b) 1 rad/sec c) 10 rad/sec d) 20 rad/sec e) none of these
- 9) The phase margin for this system is best estimated as (a) $+2^{\circ}$ (b) -2° (c) $+90^{\circ}$ (d) -90°
- **10**) The gain margin for this system is best estimated as (a) +5 dB (b) 5 dB (c) ∞ dB (d) 0 dB

-180 ^E

10⁰

Frequency (rad/s)

10²

11) The *gain crossover frequency used to determine the phase margin* for this system is best estimated asa) 11 rad/secb) 20 rad/secc) 30 rad/secd) 40 rad/sec

10¹

12) The phase margin for this system is best estimated as (a) $+150^{\circ}$ (b) $+120^{\circ}$ (c) $+40^{\circ}$ (d) -150°

10³

СМ_____

a) 0.1 rad/sec b) 0.6 rad/sec c) 13 rad/sec d) 30 rad/sec

- 14) The phase crossover frequency for this system is best estimated as
- a) 0 rad/sec b) 10 rad/sec c) 13 rad/sec d) 30 rad/sec
- **15**) The phase margin for this system is best estimated as (a) $+90^{\circ}$ (b) -90° (c) $+20^{\circ}$ (d) -20°
- **16)** The gain margin for this system is best estimated as (a) +25 dB (b) 25 dB (c) ∞ dB (d) 0 dB

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