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[Solved Problem In Control System By Jairath Pdf Free Download](#)

1. Sketch the Bode plot and determine the gain cross over and phase cross over frequencies

$$G(s) = \frac{30}{s(1 + 0.5s)(1 + 0.1s)}$$

Solution:

The corner frequencies are 2 and 10

Magnitude Plot

Sl. No.	Factor	Corner Frequency (rad/sec)	Asymptotic Log-magnitude Characteristic
1	$1/s$	None	Straight line of constant slope $-20$ dB/dec passing through at $\omega = 1$
2	$1/(1 + 0.5s)$	$\omega_1 = 2$	Straight line of constant slope $-20$ dB/dec originating from $\omega_1 = 2$
3	$1/(1 + 0.1s)$	$\omega_2 = 10$	Straight line of constant slope $-20$ dB/dec originating from $\omega_2 = 10$
4	10	None	Straight line of constant slope of 0 dB/dec starting from $20 \log 10 = 20$ dB point.



Magnitude plot for individual factors is shown by dotted line. Resultant line is shown by a firm line as shown in the figure

Phase Plot

$$\phi = -90^\circ - \tan^{-1} 0.5\omega - \tan^{-1} 0.1\omega$$

Sl. No.	$\omega$ (rad/sec)	$\phi$ (degrees)
1	0	-90
2	0.1	-83.63
3	1	-122.3
4	2	-146.31
5	5	-184.76
6	10	-213.7
7	15	-228.7

From the plots, the gain cross over frequency is 4.2 rad/sec and phase cross over frequency is 4.5 rad/sec



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