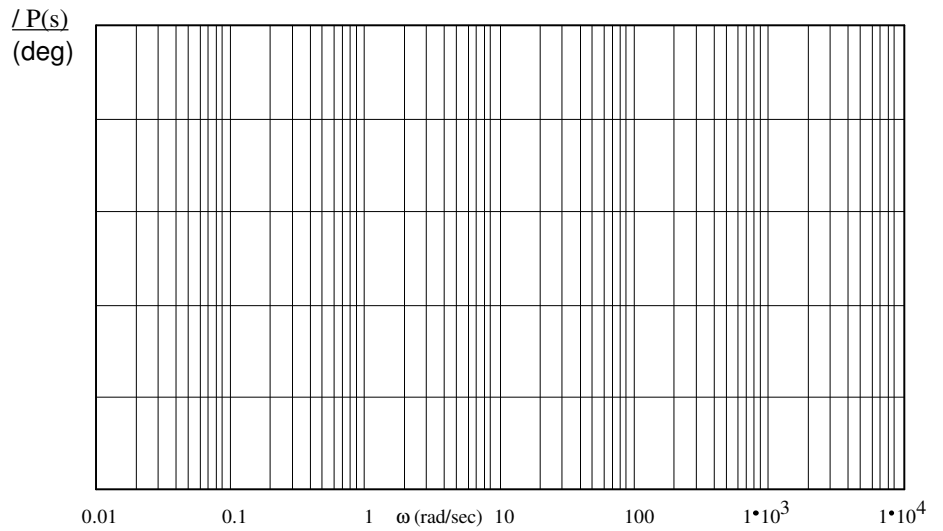
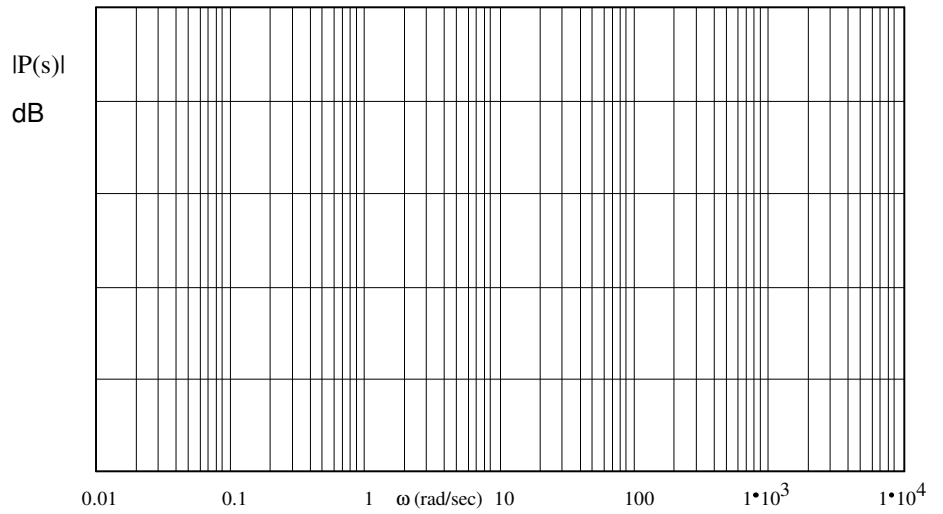
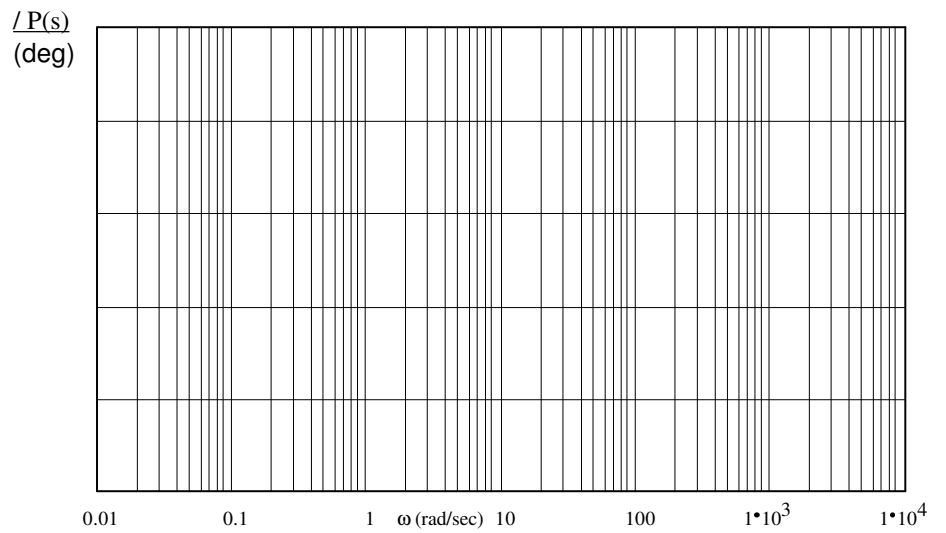
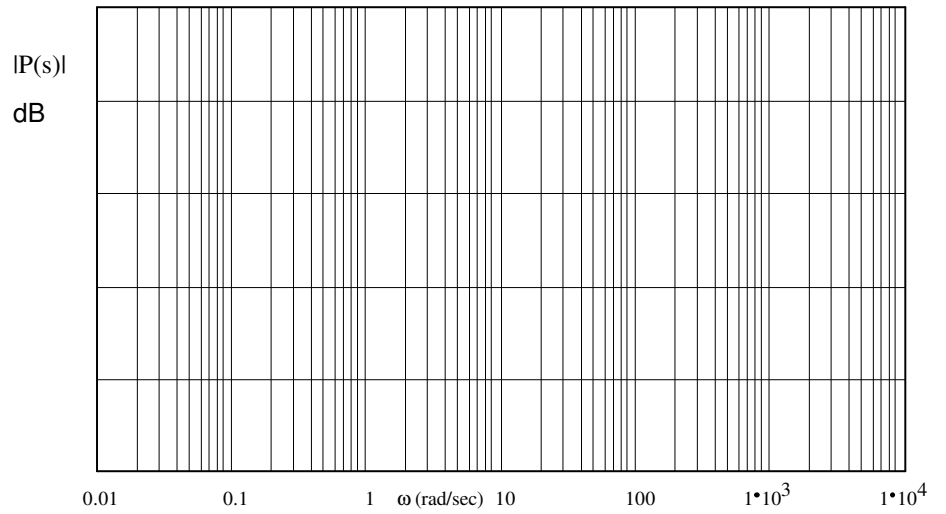


1. Problem 5.1a,b,d,e in the Bodson text. Sketch the Bode plots for the following transfer functions. Make sure to label the graphs, and to give the slopes of the lines in the magnitude plot.

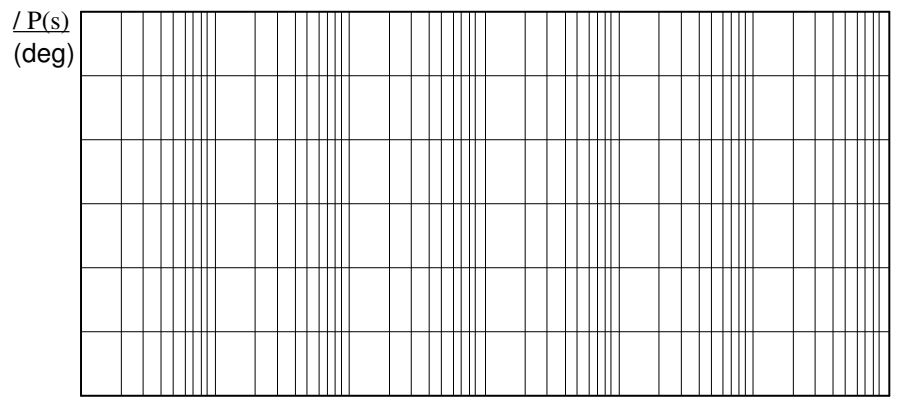
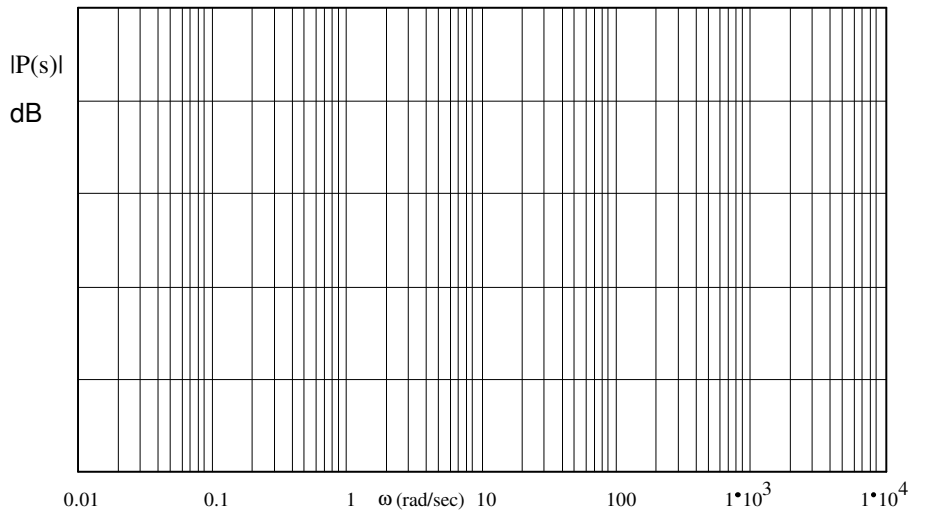
a)
$$P(s) = \frac{s - 10}{(s + 1)(s + 100)}$$



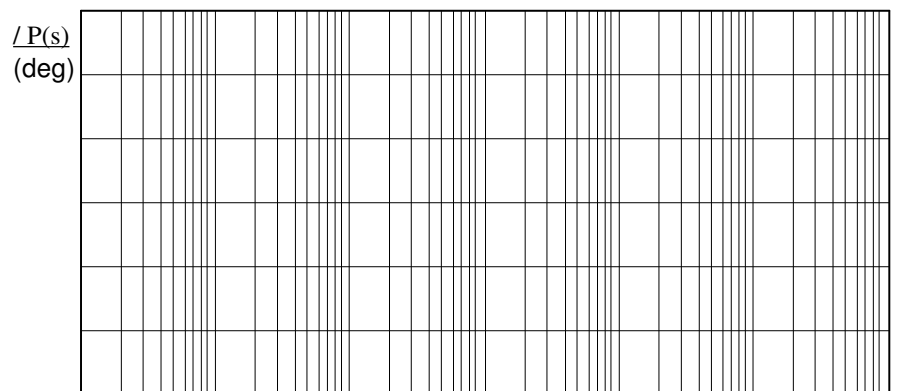
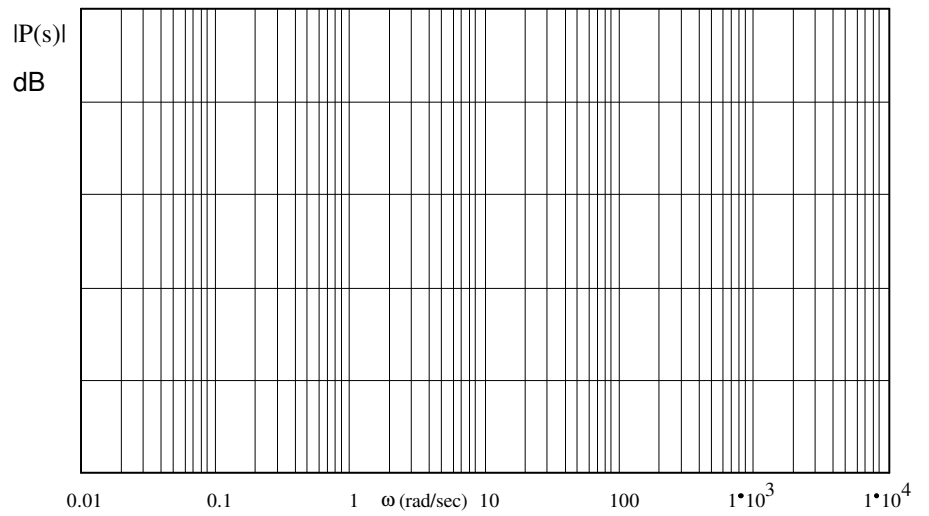
$$b) P(s) = \frac{100 \cdot (s - 10) \cdot (s + 10)}{(s + 0.1) \cdot (s + 100)^2}$$



$$d) P(s) = \frac{s - 10}{s \cdot (s + 1)}$$



e) $P(s) = \frac{100}{(s - 10)^2 \cdot (s + 1)}$



Answers

