

b-ii Routh table:

$$\frac{G}{1+GH} = \frac{K(Q+2)}{D(D+3)(D+5)+(D+2)K} = \frac{Q+2}{D^3+8D^2+(15+K)A+2K}$$

$$\begin{array}{c|c}
\mathcal{S}^{3} & 1 \\
\mathcal{A}^{2} & 3 \\
\mathcal{A}^{1} & 3(20+\kappa)
\end{array}$$

So
$$K = -20$$
 (Not passible) or $K = 0$

b-11's ande of departure larrical