$$\frac{C(s)}{R(s)} = \frac{R}{s^3 + 3s^2 + 2s + K}$$

$$b_{n+1} = -\frac{1}{3} \cdot \begin{vmatrix} 1 & z \\ 3 & k \end{vmatrix} = \frac{-1}{3} \cdot (k-6) = \frac{6-k}{3}$$

$$\frac{2}{(6-k)} = \frac{3}{(6-k)} = \frac{3}{3} = \frac{1}{3}$$

$$\begin{cases} \frac{6-k}{3} > 0 & \text{p} \\ k > 0 \end{cases} \quad \text{k < 6}$$

Routh-Hurwitz

$$\frac{4}{3}$$
 $\frac{1}{k}$ $\frac{1}{k_{n-1}}$ $\frac{1}{k_{n-3}}$

$$=-\frac{K}{K-1}\left(K-\frac{K-1}{R}\right)$$