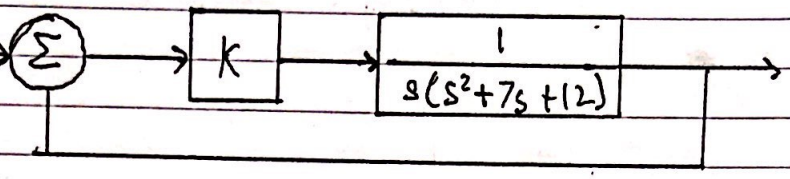
No.

Date

Sistem kontrol

Tugas 3



Tentukan daerah K!

* $P(s) = \frac{k/s(s^2+7s+12)}{1+k/s(s^2+7s+12)}$

$= \frac{k}{s(s^2+7s+12)+k}$

* Persamaan karakteristik

$s^3 + 7s^2 + 12s + k = 0$

* kriteria kestabilan Routh

s^3	1	12	0
s^2	7	k	
s^1	$\frac{84-7}{k}$		
s^0	k		

dimana $k > 0$ untuk stabil

$= \frac{84-k}{7} > 0$

$\frac{84}{7} > \frac{k}{7}$

$84 > k$

$= 0 < k < 84$ //