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Mathol: Sistem Kendaci Orgital

1. price  $\exp(x) = e^x dan$  directative  $\exp\left(\frac{-rc}{\sqrt{1-\zeta^2}}\right) = 5\%$ , throug  $\zeta$ !

ex: 5%

In (ex) = In (500)

X= -R 4 V1-72

 $-2,995^{2} = \left(\frac{-3,14}{1-2}\right)^{2}$ 

2. Druetahvi N(S) = up(s+vi)

S2+us+s = s(s+v) Hiturgrah kep dan ki!

Jawaban . 5 (571)

W(S) = 4 (8+hi)  $8^{2}+45+5$  8(5+1) = 1+ Np(5+ki) =  $\frac{Np.5 + Np. Ni}{8^{2}+5}$ 

4s = S+ Up. S

4 = S+ Kp.5

4 = 1 + Kp

Kp= 4-1=3/

8,97 = 9,8596 32

8.97 = 8.97 Z<sup>2</sup> = 9,8596 Z<sup>2</sup>

8,97 = 18,8292 2,2

72 = 8,97 18,8296

= 0,476

7 = 0,69

S (S+1) 52+ S+ Kp.S+ Kp Ki S2+ S

5 = Kp. Ki

5 = 3. Ki

Ki = 5 x = 1,6

5. Druetahu: NIS)
$$s^{2} + 2 \cdot 7 \cdot w_{0} \cdot 5 + w_{0}^{2} = \frac{2}{(s+1)(s+3)} + \frac{2}{(s+1)(s+3)}$$

$$\frac{N(s)}{s^{2} + 2 \cdot 7 \cdot w_{0} \cdot 5 + w_{0}^{2}} = \frac{2}{(s+1)(s+3)}$$

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$$\frac{N(s)}{s^{2} + 2 \cdot 7 \cdot w_{0} \cdot 5 + w_{0}^{2}} = \frac{2}{s^{2} + 4s + s} = \frac{2}{s^{2} + 4s + s}$$

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