$V = \frac{\pi x^{2}}{3} (3n - x) = \frac{\pi x^{2}}{3} (3n - x) = \frac{\pi x^{2}}{3}$ Fg = Aff g m m. v = Flat + Fg - F-Fq X=[X], u=F v=9-98 TX (3R-x)-Em Y=[1 0]x l) xs=R/3, Vn=0, v=0 = g- gg =x3 (3n-xs) - Figh Fr = mg - pgo R2/3R-R3) = mg - gp to R3 8/27/ c) c=[1 0] d=0 5=-1/0 -2m1  $A = \begin{bmatrix} -29\sqrt{2}x_{R} & -29\sqrt{2}x_{R}$ d) don. Polyman set (1E-11=12+ 85 (Alban) 52=0 12-836 (1 - 80 ) - [1-800] D yes duidig bulsprop Doinpluy F= d.v | JE-A |= J (J+d) + 195 | FEAR | = 0 -> prole Daughy, & Rida Marie

e) 
$$O = \begin{bmatrix} \mathcal{E} \\ \mathcal{E} \\ A \end{bmatrix} = \begin{bmatrix} 0 & \mathbf{q} \end{bmatrix}$$
 Roug  $O = 2$  > real bubboller

$$P_{p,1}(a) = (A+1)^2 - A^2 + 2A + 1$$

$$V_1 = \mathbf{u}_1 O^{-1} - \mathbf{u}_1 \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix} P_{p,1} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\hat{K} = -\mathbf{1} \begin{bmatrix} 0 \\ 1 \end{bmatrix} - 2 \begin{bmatrix} 0 \\ 0 \end{bmatrix} + \begin{bmatrix} 0 & 0 \\ 1 \end{bmatrix} P_{p,1} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\hat{K} = -\mathbf{1} \begin{bmatrix} 0 \\ 1 \end{bmatrix} - 2 \begin{bmatrix} 0 \\ 0 \end{bmatrix} - \begin{bmatrix} 0 \\ 1 \end{bmatrix} P_{p,1} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\hat{K} = -\mathbf{1} \begin{bmatrix} 0 \\ 1 \end{bmatrix} - 2 \begin{bmatrix} 0 \\ 0 \end{bmatrix} - \begin{bmatrix} 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} P_{p,1} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

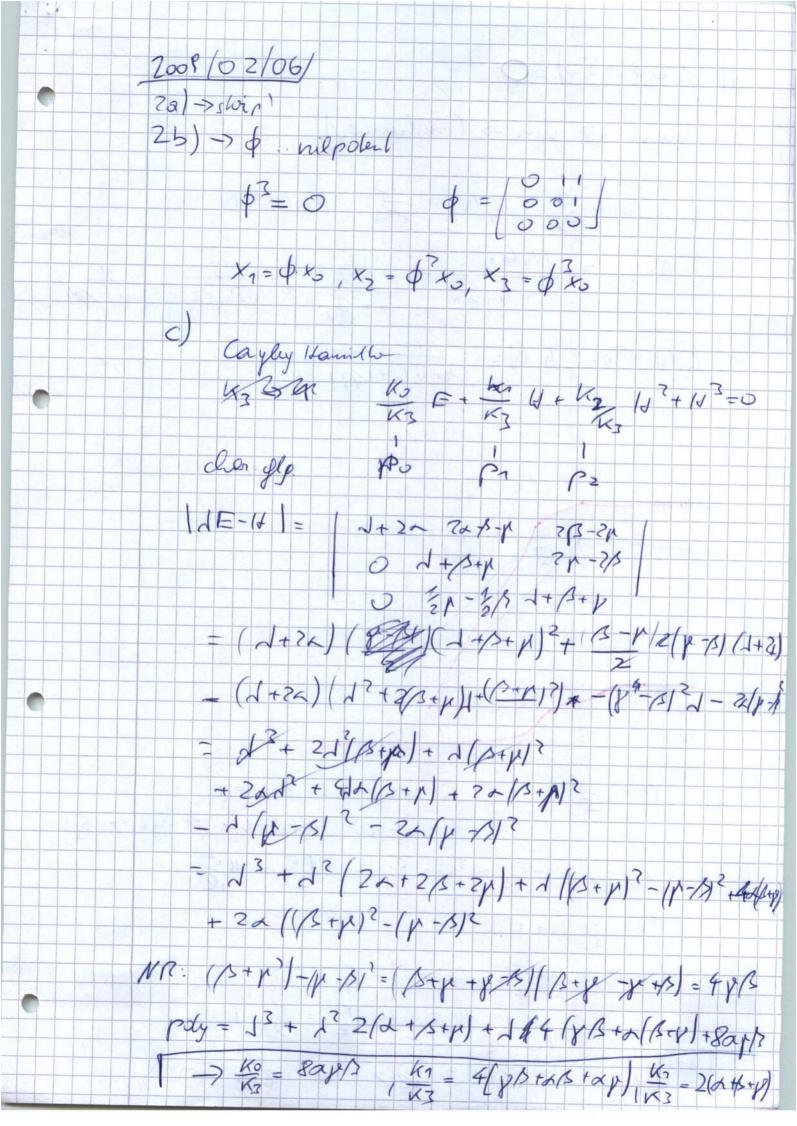
$$\hat{K} = -\mathbf{1} \begin{bmatrix} 0 \\ 1 \end{bmatrix} - 2 \begin{bmatrix} 0 \\ 0 \end{bmatrix} - \begin{bmatrix} 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} P_{p,1} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

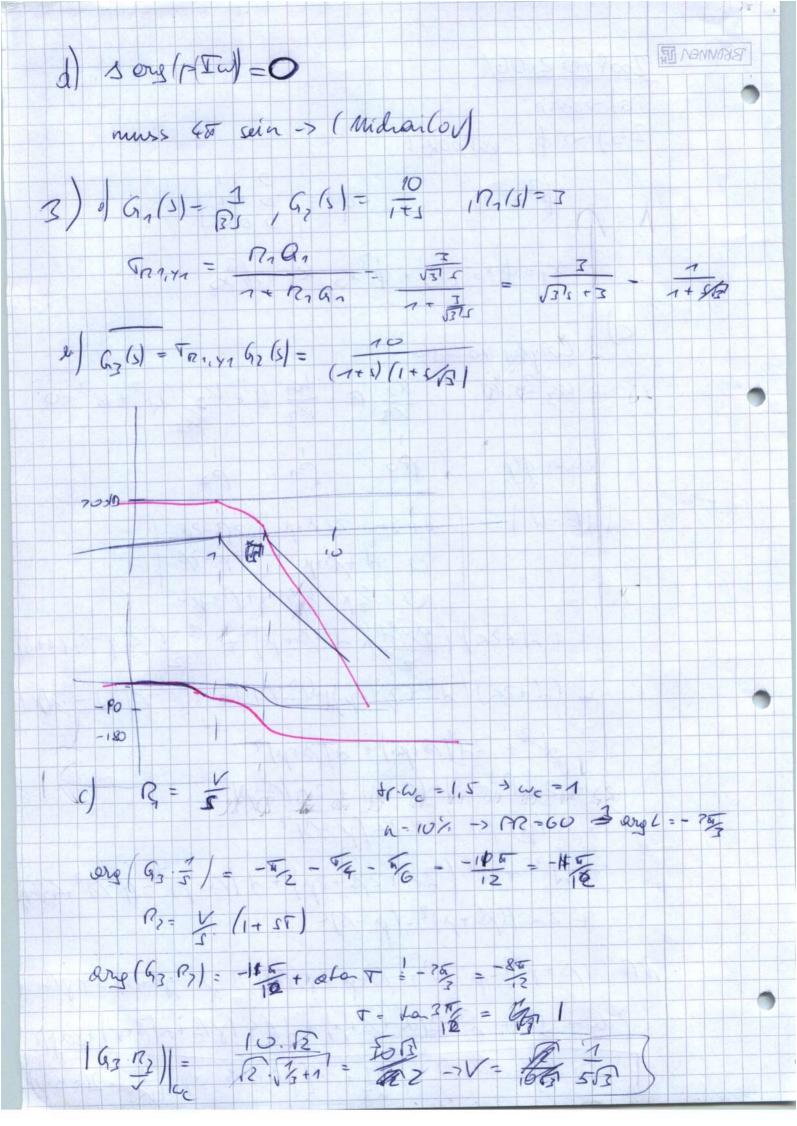
SAFARMS V A

KUGELHAFR

WEWSTERN PROBESTIONS

zio di sustaliano.





$$\frac{1}{3!!} = \frac{1}{1 + R_{1}G_{3}} = \frac{1}{1 + \frac{1}{2}!} = \frac{1}{2} =$$

KHREITHVHM

ANNATURE OF COMPANY

A- BEGGE

16.040 E.L.

4d) xxx3 - x + 5xx -1 - 7xx = ux Yx = +x+2 - 10xx

 $Z_{1,K} = X_{K}$   $Z_{2,K} = X_{K+1}$   $Z_{3,K} = X_{K+2}$ 

 $z_{1,k+1} = z_{1,k}$   $z_{2,k+1} = z_{1,k}$   $z_{3,k+1} = u_k + z_{3,k} - 5z_{3,k} + 4z_{3,k}$  $y_{k} = z_{3,k} - 10z_{1,k}$ 

SIEVIEUS VAI

KAGELHAHM

VISUALIBLE VIBRATIERY LICEN

Remove

ALICHER GERTAL