30.4.2010/ X-10/ , u=ue a) ic cdac = i2 - is MC-C Sic = Ve-Ve-ic. R ic = Ue - Uc - ic RE Vc = ic - la (uc) 0 = Ven - Ven - in Py 2) 0 = in - h(ver) - in = h(ver) Ven = Ver - R. h (Ver) h (Var) = Ver -Ver = iLR > Muhelage maximal $h(V_{en}) = Im A - V_{en}$ V_{en} b= 10 co 12 1 ist Down ein HW-Poly wen h > - 1 = - 10" A = | - Throng of + 1/2 | wen h > - 1/2 = 1 and h > - RC Ruhelan Vora + Cons d Riturn + 200 (1+ he) + Re) + Le = 12 + 1 (in + R) + hR 1

20/ nein, nill pur, de Villable lei 1 e) fin h(1) = linn sk(1-s) = ling 3 +5 7 = 0 -1 lin h(11 = lin 8(1-5) = lin 2 +5 +> (1-5) 2 | lin 2 +5 +> 1 +25+450 = lin (1-5) = 0 lin (-5 5>0 (1+5)1 = 1 (a) $|a| = \sqrt{\omega^2 + 1}$ org(Iw) = ala(-w) - Jalan w + alan cosar = alary - Edan a Far = - 30 kan a - ar 3a) i exen = Aex (a+15-1)(-2-1)-1)- as (a+15-1)=6

(a+15-1)(12+21-a/s)=0

1=a+15, 1=a+15, 2-12+4a/s 2+B<0 +2B<0 (Haraite) - Ale 1 + 150 1 7 x+15 0 -7 15 12 -2/5 del R +0 = -2/5 - B(2+5) 1+13 = -2 0 x 0 0 ops

vill sprny fölig, wer Not bi 520=360 (9 -52) (9+12) -> Ta + 12'

mild realisierkon ven Bel li 120 -2/5.

9?-8+17 = (9-6)(9-2) \[\q \neq 1, \mathbf{1} \]_3

e) so = = = tanh (Ta co)

in I G# (ISTO) und ory (G# (ISTO))

4) a) hk da = (0, \frac{1}{2}, -1, \frac{3}{2}, 0...)

Amox = (0,1,0,1,0) -> ymex - 2

X + +-0,5/4x0

milto=1

$$C_{y} = \{0 \log_{x} \sqrt{2} \}^{2} = \{1 + dR\}$$

$$= \{0 \log_{x} \sqrt{2} \}^{2} = \frac{1}{\sqrt{2}} = \frac{1$$