Problem 8.1.3 Minf(2,12) = 21,2+712 S.E. 9(2,122) = -22, +212 = -5 = Marc min 21, +22 + 1, (-22, +212+5) +/2 (-5+22, -212 (1,12) GR. 74.72 Setting 1=1,-12 => man 21,272+1 (-22,+12+5) S.E. 21, -21=0 22111 =0 Sub back into = 271, -2/=0 => 2,=/ = 0 => 2, = -1/2 立+人(-21-2+5)=-141+51 5/2+5=0=> 1(2)=-5/2+5=0=>0=0 => -5/1 /=-S => /= 2 2) = -5/2 =0 => 21=1=2, 21= =/2=-1 ore the ophinal Solhons 71,1=2,2+1,2+/(-2x,+12+5)+2|1-2x,+22+5|12 -20 (-22, +21, +5)=0 => x, - x + 2021, -On2 - 50 =0 => x, (1+20) = 1 + Onz +50 => x, = 1 + onz +50 1+20 Vn, 20= 222+2+0(-22,+22+5)=0=> 7/2 (200)+1-202,+50=0 => 1,(2+0) = 2011,-50 -1 => 1,-2011,-50-1 2+0 1,->11 · 2021, -502-10 + 50 (1-20)(200) 1+20 = 1(2+0) - SU2-10+SU(2+0) 71, - 2071, (1-20)(2+0-) (420)(2+0)

813 3. cent) 21 +10 -Sa2-10+100+502 (1+20) (2+0) 2+50+202-202 = 21+100 => 2, 2+50 (1+20)(2+0) (1+20)(2+0) (1+20)(2+0) ルマ=202,-50-人: ハ=2、11,=2=フ タナーンニファニーンー-210 : /1 = 2 , 71 = -1 V2, Lo V2, V2, Lo V2, Lo= 22, -21-20(-22,+1/2+5) = 22, -21 + 402, -2022-100-Vny Lo= 222+1+0(-12,+12+5) = 21/2+1-202,+022+50 Vaido = 2+0, Va, Judo = -20 Tha= [2490 -20] => Tha-1.] = (2490-1)(2+0-1)-902=0 = = > 64+20-21+80+902-401-21-01+12-402=0 2 => 4+100-501-41+12=> 12+1(-50-4)+100+4 => -b+b-4ac => 250+4+ 12502+400+16-400-16 $=\frac{1}{2}[50+4+50] => 50+2, 2 >0 \text{ for } 0>10=> \sqrt{3}0 \text{ is positive}$

12, 20 (21,1=0=) 21= 1+02,+50 as in pats V2, 20 (2,1=0=) 12= 2071, -50-1 Sub 22=21=> 21=2(1+50) 2 +50 0-200 ogner 1 fixed 11+0012+50 => 7/1 = 20 2+0 => 7/2 - 20212 201-50(1+20) -1(1+20) +1002 (2+0) (1+20) (2+0)(1+10) 201 - 50+1002 -1-201 +100 (210) (1420) 2 +50+20 -202 -50-1 >) 11, 2-50 (210)(420) 2+0) (1-20) (2+0)(1+20) (2+0) (1+20) , Im 12 = - (2+50) 1+50 im 0-20 2+50 2+50 Afred ofred 1, (1,0), 12(1,0) -> x = (2,-1 Im 0-00 Africk (7, (1,0), n2 (1,0)) -> 2= (2,-1) lim 1-02 on sind

Proldem a (2) Min (2,2) 21681142-23