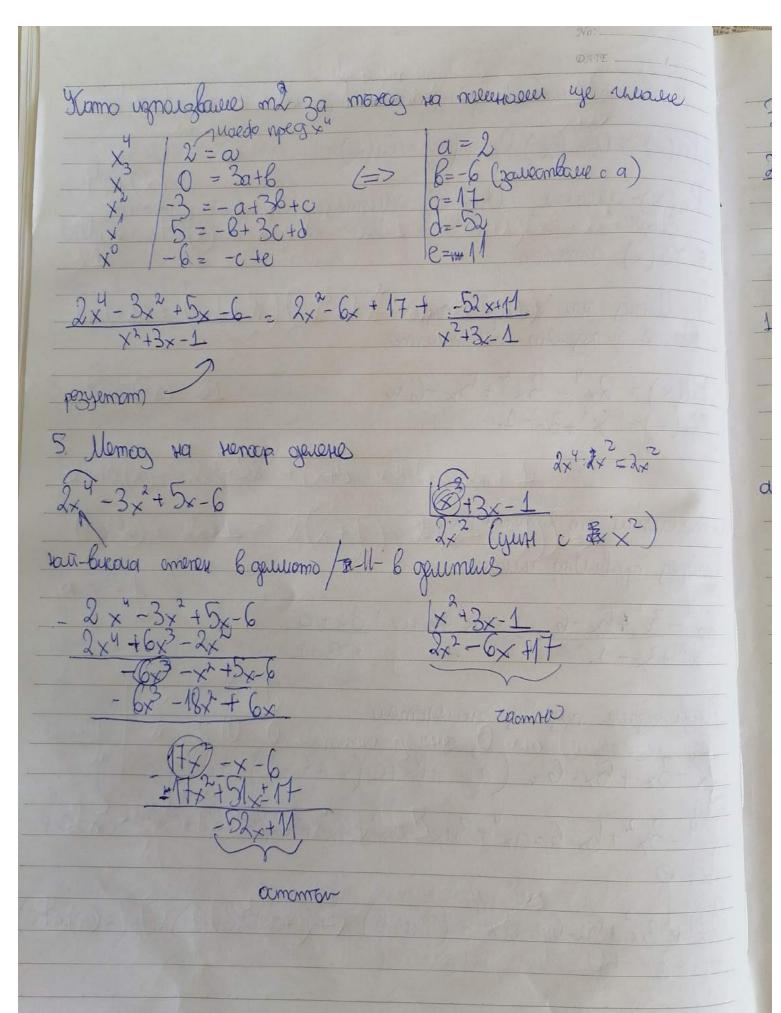
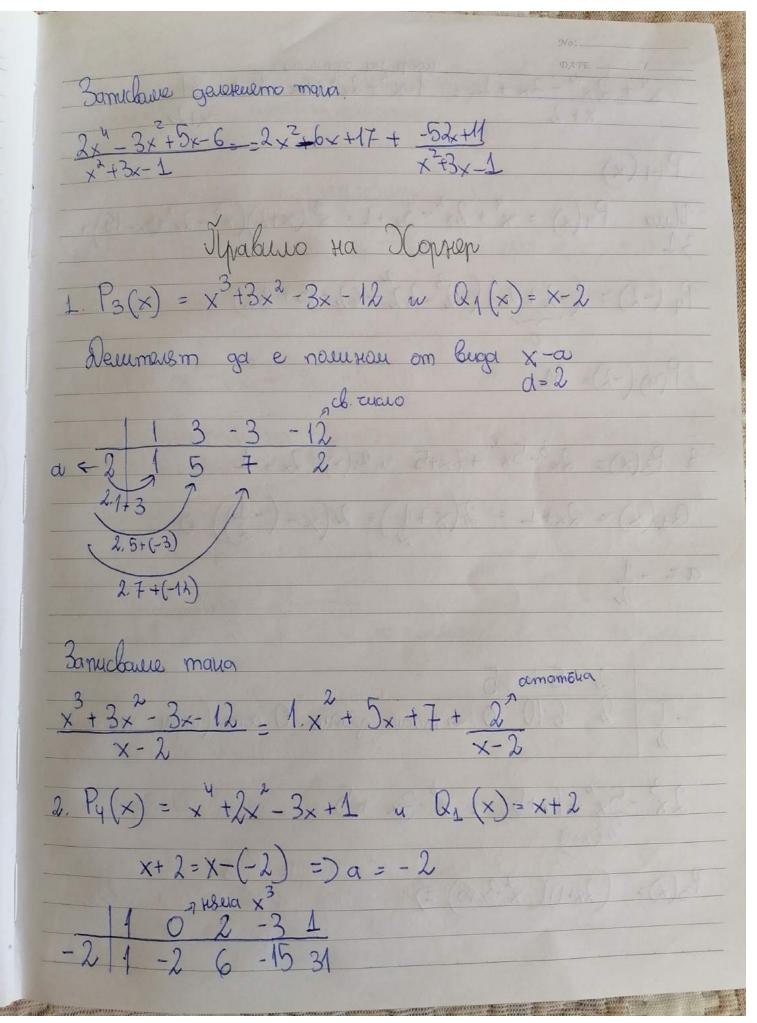


2. 5116 жедественост на пашнами Pn(x)=aox +a1x + - + an-1 x tan e mosecgeombero Qm(x) = box m + b1x m-1 + bm-1 x + bm, allo: 1) n=m; u 2) ao=bo o a=b1, a=b2 -- an-1=bm-1, an=bm 3. Derever Ha naresposicio g) wemag ta theorphagueteume weeds. 8) versag Ha renocip, gerellive Thobere sa genere na gla naturioua Pn(x)= aox + a1x + -... an-1 x + an w Qm(x)= box m+ b1x m-1 t ... + bm+1 x+6m e Relinatification om omener, a comamous n=m, 0 56 5m-1

Ilpalariomo morceer ga zammen age mara: Pn(x) = Qm (x) Rn-m (x) + Tu(x) Ph(x)-genus, am(x)-general, Rn-m(x)-zacm+0, E YW(x)- ocmamble 4. Memaz Ha yeonp. Woedo. Da ce pozzewem naumanume. Py(x) = 2x - 3x + 5x - 6 w Q2(x)= x"+3x-1 x mountain on lumeral Hax Choped mabulano muane 2x-32+5x-6 = ax2+bx+c+dx+e x2+3x-1 Magbercaque nog ody znaustomen 2x-3x+5x-6= (ax+6x+c(x+3x-1)+dx+e 2x - 3x2+5x-6=ax+3ax3-ax2+6x3+36x2-6x+cx2+3cx-c+ 2x + 3x + 5x-6= ax + (3a+6) x + (-a+36+0) x + (-b+3c+c)x -6-0

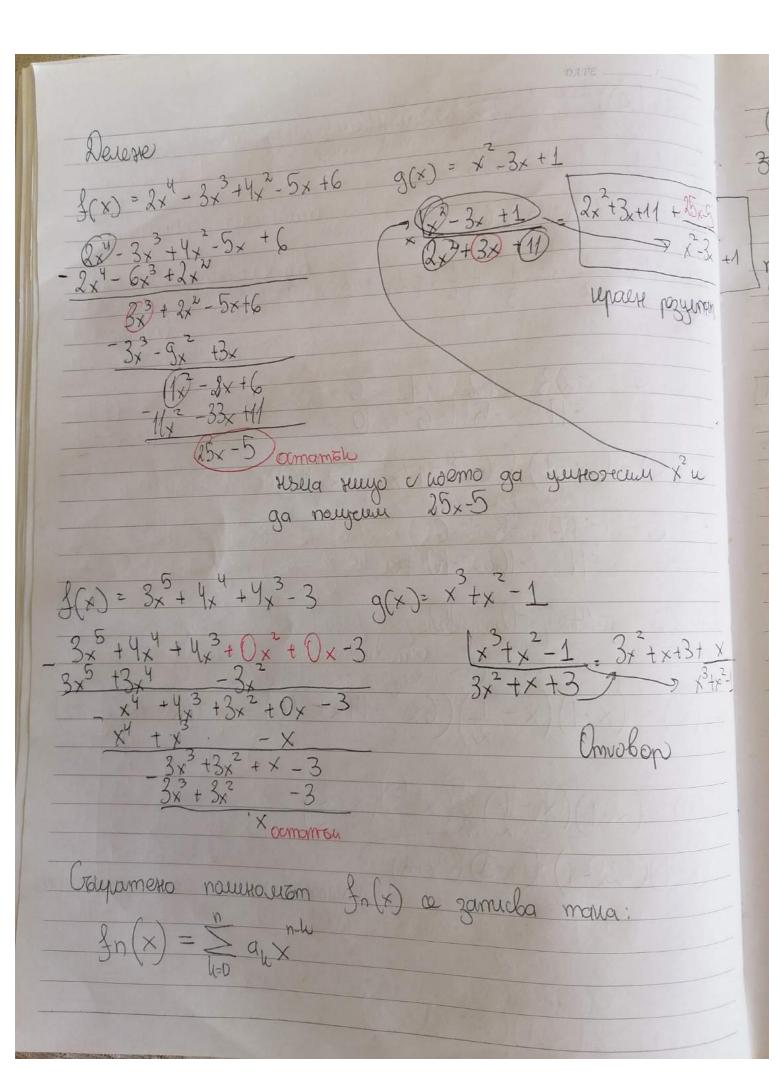




 $\frac{x^4 + 2x^3 - 3x + 1}{x + 2} = \frac{1 - x^3 - 2x^2 + 6x - 15 + 31}{x + 2}$ P4-1(x) Unw  $P_4(x) = x^4 + 2x^2 - 3x + 1 = 2(x+1)(x^3 - 2x^2 + 6x - 16)$  $P_4(-2) = (-2+2)(-2^3-2\cdot2^2-6\cdot2-15+31)$ P(4):(-2)= 31 3 P3(x)= 2x3-5x2+7x+5 u Q1(x)= 2x+1  $Q_{\perp}(x) = 2x + 1 = 2(x + 1) = 2(x - (-\frac{1}{2})) = 2$ -1 2 -6:10 0 5 moores generie 0 ccm (upper ra nou) 2x-5x++x+5 = x-3x +5 P3(x)2 (2x+1)(x2-3x+5)=)

Hym Ha name Home 1. Aus Pn(x) , of (psq-bosulero macmu), mo pe gellimen na ans a que gellimen na as f2(x)=x-6x+11x-6 q e genumen 4a -6 =>p= ± 1, ±2, ±3, ±6 P= ±1, ±2, ±3, ±6 11-611-6 11-560 = zualomo 1 e 0 ra nou f3(x)=(x-1)(1x2-5x+6) x-5x+6=0 ()=1 x12 = 5 ± 1 (3)  $f_3(x) = (x-1)(x-3)(x-2)$ 

3 
$$f_{4}(x) = 6x - 23x^{3} + 12x^{2} + 11x - 6$$
 $p = \pm 1, \pm 2, \pm 3, \pm 6$ 
 $q = \pm 1, \pm \frac{1}{2}, \pm \frac{1}{3}, \pm \frac{1}{6}, 5 \pm 2, \pm \frac{1}{3}, \pm \frac{1}$ 



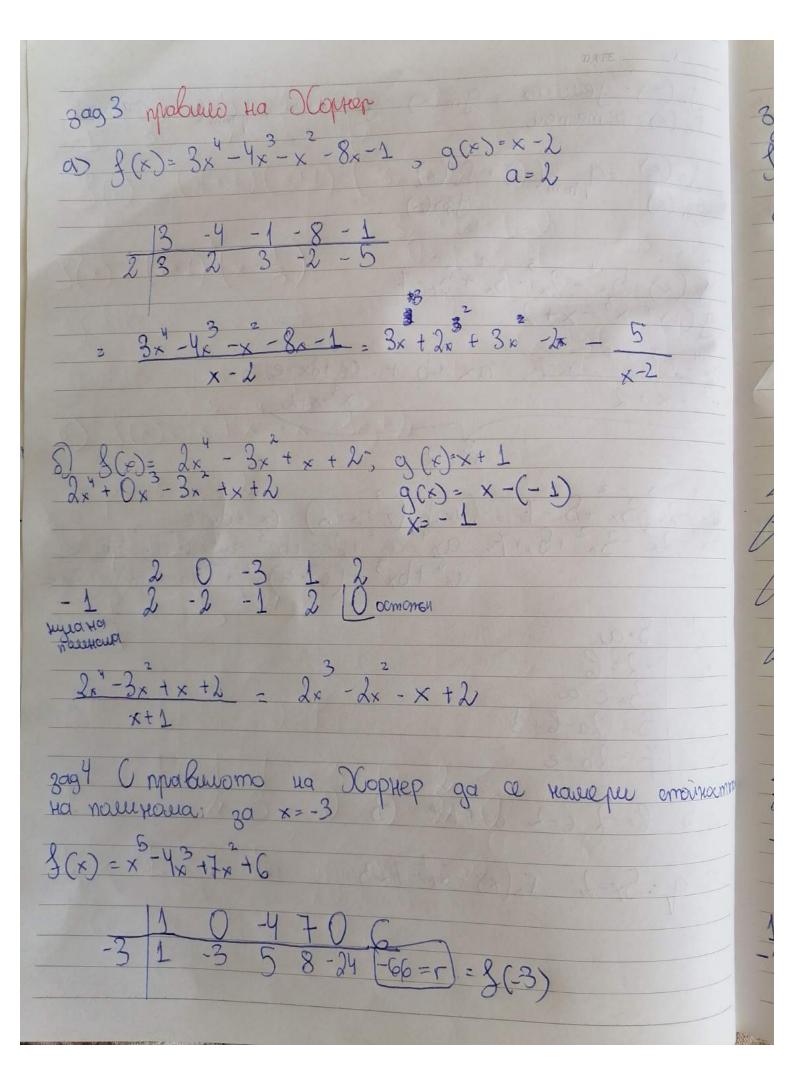
200 Thursen 1 . f(x) = x - 2x + 6 f(-4) = (-4) -2(-4) +6= -50 1 Просседествено prabeн на regia [fn(x)=0] зано п нливна стойност недла за возна стойност на Xme Deverue  $\frac{1}{2}n(x)$   $\frac{1}{2}m(x)$   $\frac{1}{2}m(x)$   $\frac{1}{2}m(x)$ equipombeter nautour quin(x) u Ts(x) 04 S < m -In(x) = 9m (x) 9 n-m (x) + rs(x) llemon Home wards (1.1) In(x) genus gm(x) genere gn-m (x) zaannu Is (x) comamon des comamon-mocto genete In(x) = qn-m(x) + [s(x) Munes 2 3(x)= 2x-3x+6x-8x+8x-1 степен - passervama om степените на дешито и

gellumeus, a comamentem use viege on omenen Oznaraballe TacmHomo: Q(x) = ax3 + bx + cx +d 3 Comamoua m(x)= exth (1.1) 2x - 3x +6x -8x +8x -1= (2x-3x-2) (ax +6x +cx+d) - десиста страна  $2x^{5} - 3x^{4} + 6x^{3} - 8x^{2} + 8x - 1 = 2ax^{5} + (2b - 3a)x^{4} + (2c - 3b - 2a)x^{3} + (2d - 2b - 3c)x^{2} + (e - 2c - 3d)x + h - 2d$ Thunabrohavie ivedo nea egraveime ameneria na x om gome amparen na paberambomo 2c-3b-2a=6 2d-2b-3c=-8 e-2c-3d=8 h-2d=-1 a= 1 b= 0 c=4 d=2 e= 22 h=3

=) 0= 9(x)= x + 4x + 2 ; r(x) = 22x + 3 2x<sup>2</sup>-3x<sup>4</sup> + 6x<sup>3</sup>-8x<sup>2</sup>+8x-1 - x<sup>3</sup>+4x+2 + 22x+3 2x<sup>2</sup>-3x-2 2x<sup>2</sup>-3x-2 Hyur na noulekoure In (x0)=0 Youamo generalism e on repla comercia: 9(x)= x-x0 zaomnomo e nauerou om mener n-1,  $f_n(x) = (x - x_0)q_{n-1}(x) + r$ Nou x=xo r= fn(xo) fr(x)= (x-x0)9 / (x) gerenne Sez acmontan X=xo-le-upamera regia na naueronai gn(x) 3n(x) = (x-x0)qn-le(x) 23-1 egroupamna, gayupamna rujua na naueraua 3(x)=(x-3) (x+1) x +1=0 - perceperama ca varint thata ±i i= 1-5 manurepra cogruega i=-1

DATE/
Karopewan bug na Mountanno
Spalemono ra Scopren
$\int_{n(x)} = (x - x_0)q_{n-1}(x) + r$
9 h-1 (x) = box Tacmino ramomete
Hallepare Ha prayuo Hauteume Hyur Cyelle in gprostrer) paryuo Hauteume wopeken (penetrus)
$3^{69} \frac{1}{3^{10}} \frac{1}{3^{1$
7x+5-ocmomou
3092 Hlompagentenne ucedougerenne
Eleverano 13  3a bæne aba novertoura f <sub>n</sub> (x) u g <sub>m</sub> (x) npu n≥m u g <sub>m</sub> (x) ≠0 conjection bylam eghozhacho onpequente (equiramberes) novertoura q (x) u r <sub>s</sub> (x) 0 € S € m-1, 3a usumo e uzrosereno probehamomo
In (x) = 9m (x) 9 n-m (x) + rs (x)

fr(x)-gemme, gm(x)-gemmen, qn-m(x)-zaconne To (x) - Ocmamou In (x) = q n-m(x) + (x) 9m (x) f(x)=5x-2x-3x+5x-7 9(x)=x3-x+2 5x-2x-3x+5x-72 ax+b+ -cx+dx+e x3-x+2 5x-2x-3x+5x-7 = (ax+b)(x-x+2) + (x + dx+e) 5x-2x-3x+5x+7= ax-ax+2ax+bx3-bx+2b+cx+dx+e ax+bx3+(c-a)x2+ (2a-b+d)x+2b+e 5= 2a-6+8 7 = 26 +e a=5 6=-2 c=2 d=-7e=-m3 => 9=5x-2 (x)=2x-7x-3



&(x): 3x + 8x + 6x - 1 tul4670

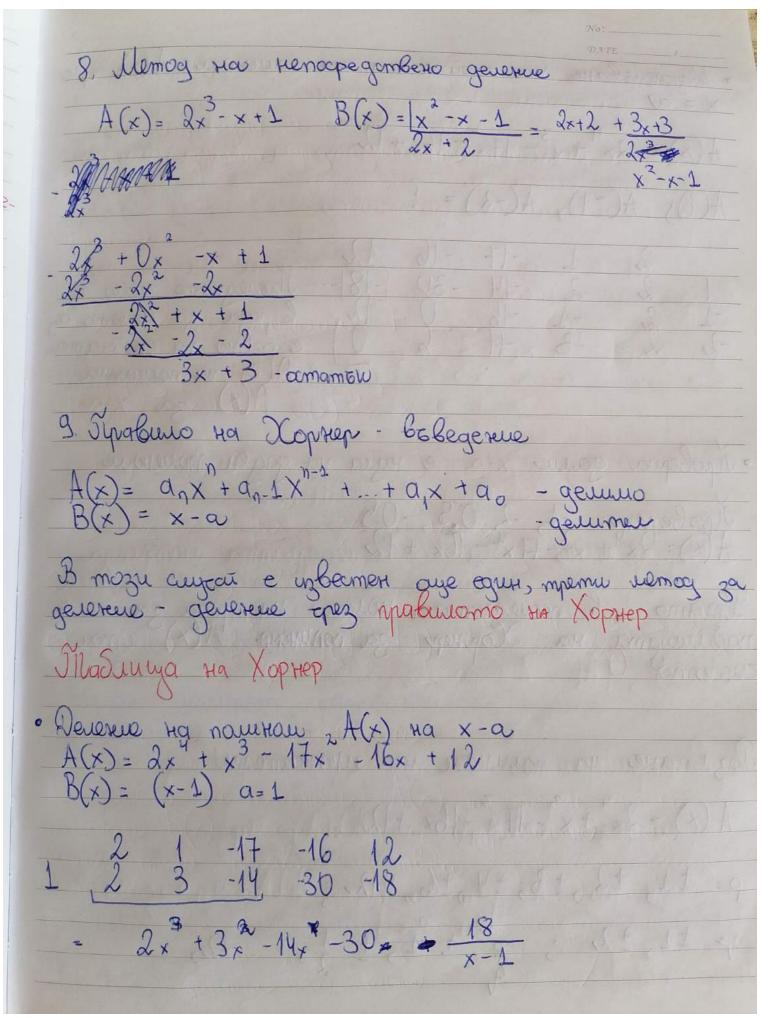
g(x) = (x+1)(x+1) (3x+2x B(x)= (x+1)3(x-13) q= ±1, ±2

-2 -2 10 1) (x + 2x + x - 2x - 2)  $(x-1)^{2}(x^{3}+3x^{2}+4x+2)$ f(x) = (x-1)2(x+1) (x2+2x+2) harrore work beg x +2x+2=0 Jany orallume Ha natural ca x1=-1 x2=x3=1 3a povietue na nallinama rilganie ryseime

P(x) = a, x + a, x + ... + a x + a. inflection terain Statution ha X om moret n старии поефиценть поефенценти з свободен спец 2 Cuilbourn поправна ст на брага за сума (съпротен зати) = Zaux
40-5 haround om na Sp Тисиена стой ност Tuaismo x e rigia na nomenoma P(x) suaramo P(x)=0 P(2) = \( \( \lambda \) \( \lambda \) = \( \lambda \) \( \ (moûteamma P(xo) на naturalia P(x) mu xo=x e Di vomo, voemo e nauy caba aveg vamo 6 nauxava x) zamemmu ponemu bama x c recciomo xo u uses pulle usecultures

4. Paberembo - имат една и съща степен - иоефицинтите пред еднашвите степени на х са 5 Downbus c nourroum + a) P(x) + Q(x) =? 23+0x-x+/1+x-x-/=2x+x-2x 0 P(x) - Q(x) = 2x -/x + 1 - x +/x +1 = 2x - x +2 6) P(x).Q(x) = (2x - x+1)(x - x-1) = 2x - 2x - 2x - x + x + x + 2x - 1 = 2x - 2x - 2x - x + x + x + 2x - 1 6. Deverue Ha nouthann Deveruemo на navurou A(x) om comener n на пошнош В(х) дт степен т е нетривионию само warano nz m. 5/Novabar conjectible con contenta glorina (x) om omenen n-m u R(x) om omenen S<m, manulog, re ga e uznowneno pabenambomo genuno A(x) = Q(x) + R(x) comamon

R(x) = 0 - motro generale Also generalism e nomeray om buga x-a, mo x = (x-a)Q(x) + r subgemo r = (a)Ma memoga: Heorpegenereme nocobringremo, renapogente t. Memog na neonnegenereme moedangermi A(x)=2x3-x+1 / B(x)=x-x-1 Q(x)=ax+6- zacmino P(x) = cx+d-comomow A(x) = ax + 6 + cx + d B(x) (ax+6)(x -x-1)+ cx+d ax3 -ax +(6x)-6x -6 +cx +d ax3+(6-9)x+(c-a-6)x-6+d -1=0-2-8 2x-x+1 = 2x+2+3x+3



· Uzerasbate na cmoù nocemma na novembre A(x) mpi A(x)= 2x4+x3-17x-16x+12 A(1), A(-1), A(-2) = ?-- Thougramo texus T 6 pegas za cercuomo a e pastro na umainamma H( a) Ha noeuhoua · Tipobenia game x-a e regia na gagen namerou Jipobe peme: -1, -2, 0,5, -0,5 A(x)= 2x+x3-17x2-16x+12 Wordmo 6 novely Harma usiona Ha pega za a 6 madringama Ha Dophep za nonlymp Alx) umai · Pazianate na nountour na introdument A(x) - 2x + x - 17x - 16x +12 P= ±1, ±2, ±3, ±4, ±6, ±12; q= ±1, ±2; f=1, ±1, .... ±2,

-2

-

 $(x+2)(2x^3-3x^2-11x+6)=$ = (x+2) (2x -7x +3)  $= 2(x+2)^{2}(x-3)(x-0.5) = 2(x+2)^{2}(x-3)(x-0.5)$  washorented Bug Chorambo Ha paryuo Harteme ryu Ha nouumau c yeuo aucheru uo eo puryeremu 17 Ha Emuly Joezy the egro palyuohanko enaro a= f spet, ge N e ryra ha noverpua, mo g pet, ge q gem mapules used an 70 Va ce navieps polyuotaurume voperu Ha poblerumo.  $6x^3 + 67x^2 + 9x - 22 = 0$ P= ±1, ±2,±11,±22 q= ±1, ±2, ±3, ±6 P= ナイ, ナル,ナル,ナル,ナシュナリッナショナリナラ + 1 5 ± 11 Succa monum ga Jégam mapenin

Увленеране на рационаннете нуми на поленам с Une noblemen (topes noblemente na Maples una em eman ca resperse na grabiteteremo Emopus unoscumen aug moba mépaur ryenne na x1=-11, x2=-2, +3= 1 demenductations 1. Ompegenerus - Ita Bosna ubagnamma mampunga no ompegenerus mpabrulas ce concernabe cucio Pulla ce hapera gemepueltarma uznaz) sucemo det (A); A); A germa 2. Детериинакти от порви и втори ред - nopber pag A=[an]; mo det(A)= an - Emopue peg A= an an mo debA = anar anzar