```
1) Det ged(0,b)=? +u,v & 2 0?
u.a+v.b = god(0,b)
a) a =461
   5=153
 461=153.3+2
163=2.76+1
 2=1.2-0
 gcd (461, 153) = 1
 1=163-2.75
 1=153-/461-153 3) 4L
 =153 -461.76+153.228
 = 153.229 - 461.76
1= W. 461 + W. 153
U1 = -76
14 = 279
 153:1=153=7 u=-46-153K1
 461:1=461=70=229+4C1k
b)a=120, b=73
  120-23.5+5
  23=5.4+3
  5=3.1+2
  3 =2.1+1
  2=1.2+0
gcd(120,23)=1
 1=3-2.1
1=3-(5-3)=3-5+3.1=3.2-5.1=
                       = 123 - 5.4).2 - 5.1
                       = 23 Z - 5.9
                      =23.7 -(170-23.5).9=23.2-120.9+23.45=23.47-120.9
 1=120(-3) +44 25
 u, = - 9
 V1 = 47
 120:1=120=7 N=47+120h
47:1=47=7 N=-9-23k
c) a=1950, b=45
 1350 = 45 . 43 +15
 45=15.3+0
                                     18:1950. U - 45.V
 gad(1950,45)=15
 13= 1950 1 +45 (-43)=7 4= 1-43)
```

1950:15=130=) W=-43+130h, HAEZ

Presupurem P/X-1) - ader is dem P/X) $m=\pm p_1^{\alpha_1}\cdot\dots\cdot p_t^{\alpha_t}/= p_k/m=\pm q_1^{\beta_1}\cdot d_k^{\beta_1}$ Ph-prim

gt-prim

gt-prim =>P==\$t $M = \stackrel{+}{=} \rho^{\alpha_1} \cdot \rho_2^{\alpha_2} \cdot \dots \cdot \rho_2^{\alpha_n} = \stackrel{L}{=} g^{\rho_1} \cdot \dots \cdot g^{\rho_k} = g_{\epsilon}$ $: \rho_k = g_{\epsilon}$ $M = P_1^{x_1} \cdot P_2^{x_2} \cdot \dots \cdot P_{b}^{x_{b-1}} = g_1^{\beta_1} \cdot g_2^{\beta_2} \cdot \dots \cdot g_{b}^{\beta_{b-1}}$ P(d-1) - Adevarat => d-1= 21+dz + ...+dx-1 => pi=ginidi= pi jiba Test Afect criteriu grafic - imi 2) Rel de echivalentá, S.C.R Brtial ordonata, Total ordonata, el-min, el-max, maxim, minim, d. Hasse Rel de ordine 3) Evaled Ex 4: RR, x~y=)(x2-x+1)2=(y2-y+1)2 appet ~- echiv $|x-y|^{2} = |x^{2}-x+1|^{2} = |y^{2}-y+1|^{2} = |y^{2}-y+1|^{2} = |y^{2}-x+1|^{2} = |y^{2}-x+1|^{2}$ 6) [0], [2] Temo a) Replexiva plt + PR, x~x = (x2+1)2 = (+2-x+1)2 - Adeu 6) Simetrica xyER CU YNY => YNY c) Transitiva: xy, 2 FR, rny xy~2 => r~2 x~y => (x2-x+1)2=(Y2-Y+1)2 Y~ 2 = 2/ Y2- Y+1)2 = 122-24)2 b) (07= { xer | x ~ 03 $x\sim 0 \Rightarrow (x^2-x+1)^2 = 1 \Rightarrow x^2-x+1=\pm 1 \Rightarrow x^2-x+1=1=2x^2-x=0=2x\in\{0\}$

 $x \sim 0 = x^{2} - x + 1 = 1 = x^{2} - x + 2 = 0$ $\sum_{x=1-8=-4}^{1} x^{2} - x + 1 = -1 \Rightarrow x^{2} - x + 2 = 0$ $\sum_{x=1-8=-4}^{1} x^{2} - x + 1 = -1 \Rightarrow x^{2} - x + 2 = 0$

