Jene 41 1. Seterminati counde al lui 3456, si 76549 Lolosind algoritmal lui Euclid extins si determinați coeficienții Berout ×76549=(1,0), ×34561=(0,1) 76549 = 2.34561 + 7427 = (1,0)-2(0,4)=(1,-2) 34561 = 4.7427 + 9853 = 34863 = (0,1) - 4(1,-2) = (-4,9) 7427 = 1.4853 + 2574 = 32574 = (1,-2) - (-4,9) = (6,-11)14411 4853=1-2574+2279=)2270=(-4,0)-(5,-11)=(-9,0) 2574=1-2279+295=) 295=(6, 111-1-9,5)=(14,5) 2279=7.295+219=)214=(-9,-)-7/14, -)=(-107) 295=1-214+81=381=(14, 2)-(-107, 3)=(121, -18) 214 = 2.81 +52 = 52 = (-107, 339) - 2-(121, -368) = (-349) 81 = 1.52+29 = 29 = (121, -268) - (-349, -1) = (470, -1)

52 = (29 + 23 =) 23 = (-389, -39) - (470, -49) = (-819)  $29 = 7 \cdot 23 + 6 =) 6 = (470, -49) - (-819, -385) = (1289, -385) = (-819, -385) = (-9686, -385) = ($ 

= (5976, - 1509)

2. Determina inverted lui 4 Er modulo 13.

13=34+1 => 1= 1.13-3.4

4.3 = -1(mad 13) (-1

HAMILY SH -43=1 (mod1)

4.(-3) = 1 (mod 13) Yes = 1 ( mad 13 /24)

To ensertal his 4 (mod m)