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1544 = 4 × 362 +96 362 - 3196 + 7496 = 1x74+22 74=3122+8 22 = 218+6 8 = 1 × 6 +2 -> dernier reste non nul=2 6 = 3 × 2 +0 => PGCX(1544, 362)=2 Nous allers meintenant chercher a déterminer des entiers U, V E72 1544 U + 362 V= 2 Po = (a, 1, 0, b, 0, 1) a=gb +2 P1- (1544,10,362,0,1) 1544=4x362+96->9-4 P2 = (362,0,1,1544-4x362,1-4x0,0-4x1) P2=(362,0,1,96,1,-4)362=3×96+74=)q=31 P3=(96, 1, -4, 362-3 × 96, 0-3×1, 1-3×64)) P3 = (96, 1, -4, 74, -3, 13) 96 = 1x74+22 = 9=1 P4= (74,-3, 13, 96-1x74, 1-1x(-3), -4-1x13) P4= (74,-3, 13, 22, 4,-17) 74-3x22+8 =>g=3 Ps= (22, 4, -17, 74-3x22, -3-3x4, 13-3x(-17)) P= (22,4,-17, 8,-15,64)22=218+6=> g=2. P6 = (8, - 75, 64, 22-2 x8, 4-2 x6-75), 17-2 x64) P6=(8,-75,64,6,34,-145)8=1x6+2=29=7 P7= [6, 34,-145,8-1×6,-15-1×34,64-7×(-145)] $P_{7}=(6,34,-145,2,-49,209)6=3x2+0=3q=3$ $P_{8}=(2,-49,209,6-3x2,...)$ $P_{8}=(2,-49,209,6-3x2,...)$ $P_{8}=(2,-49,209,6-3x2,...)$ $P_{8}=(2,-49,209,6-3x2,...)$