

00000000000 4. M. T. of 19 235 ged (19,35) residue 16 = 1×35 -1×19 gid (35, 19) gid (19, 16) residue 3 = 1x19-(1x35-1x19) residue 1 = 1x16-5(1x19-(1x35-1x19)) ged (16;3) = 1 x 35 - 1 x 19 - 5 (1 x 19 - (1 x 35 - 1 x 19)) ged (3,1) ged (V, 0) = 1×35-1×19-5×19+5×35-5×19 =6x35-11x19 =6 x35+24x19 since -11=24 in mod 33 SO 24 is the M. T. of 19 in Z35 5. (6x = 3 mod 23 M. E, of 6 15 4.3=12 X=12 (7x = 11) mod 13 M. E. of 7 is 2.11 = 22% 13 = 9 x=9 (5x = 7) mod 11 N, t. of 5 is 9.7 = 63% 11 = 8 X=8