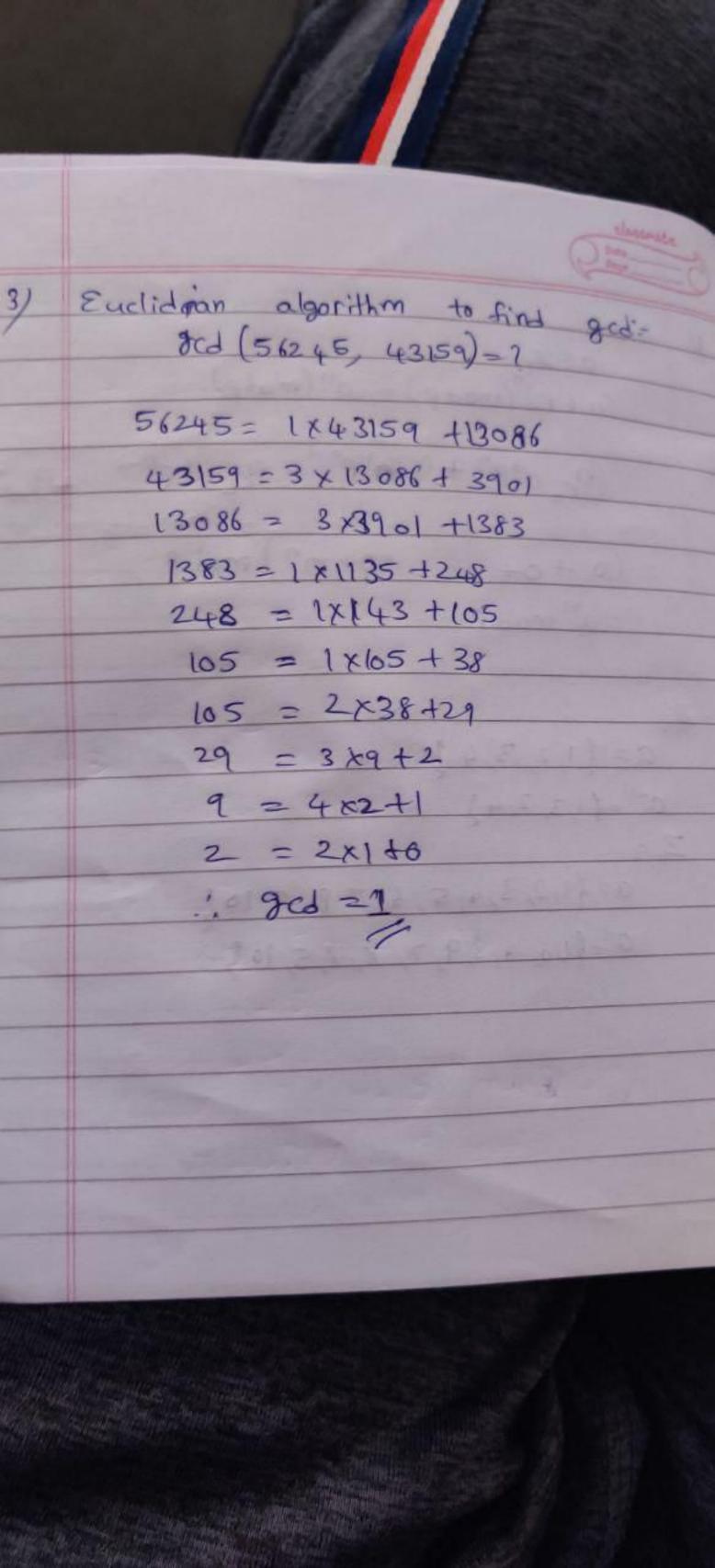
V Given (a+P)"(modp) = a" (made) (nc a o p" + 12, 0' p" + nc a 2 p - 2 + nc a p) = (0+0+ ... +0+an) mad p = an mode 2) 7/5 a= {1,2,3,4} a-1-11,3,2,4} a={1,2,3,4,5,6,7,8,9,10} 0=946, 4,3,9,2,8,7,5,109



4) & (34)
: 3 is a Prime, WIT & (P) - P-P-1 > Ø(34) = 34-34-1 = 3(3-1) = 2782 = 54 P(210)=210-29 = 1024-512 = 512 3100 mad (31319) 5) 100 = 1100100 =26+25+22  $(3^{100})=(3)^{26+25}+2^{2}$ =(3)24(3)24(3)22 => 300(mod(31312)) = (3) ×(3) ×(3) × (3) 2 (mod 313)

