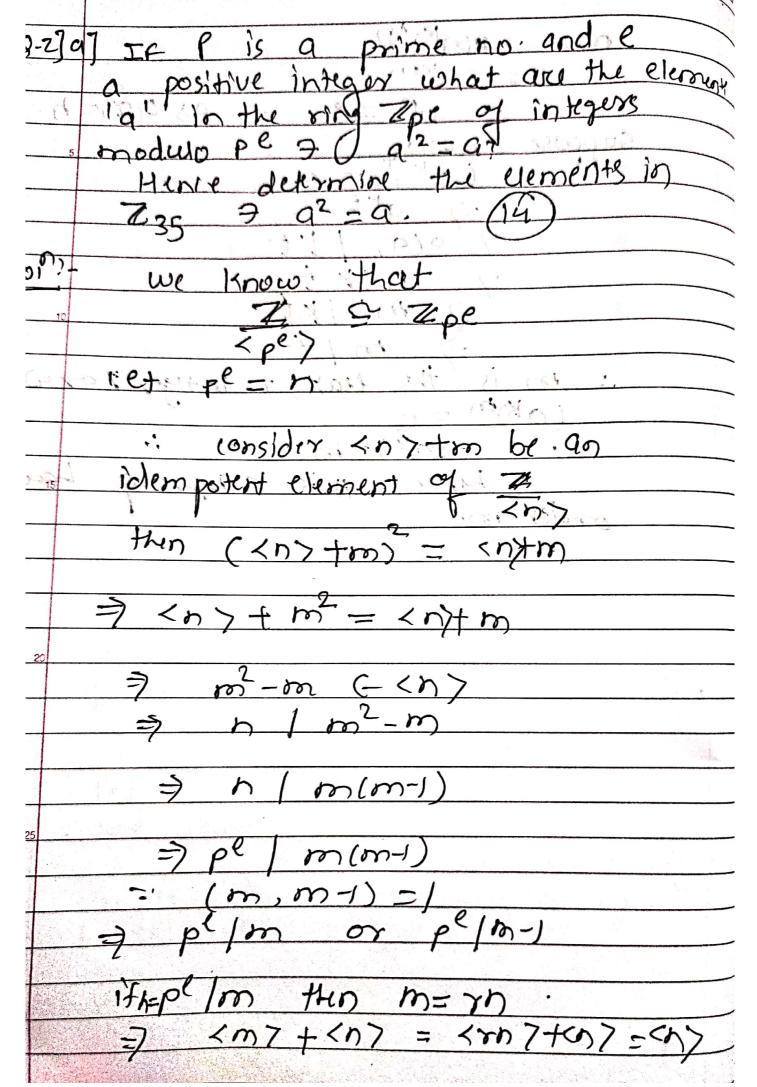
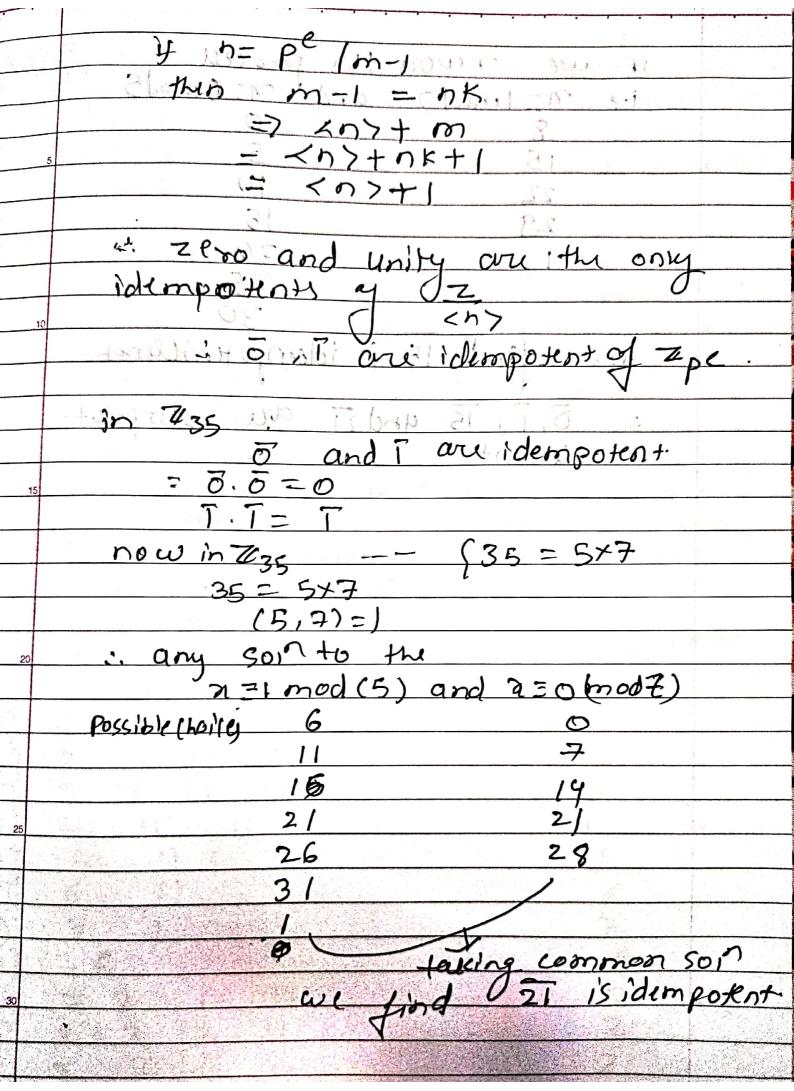
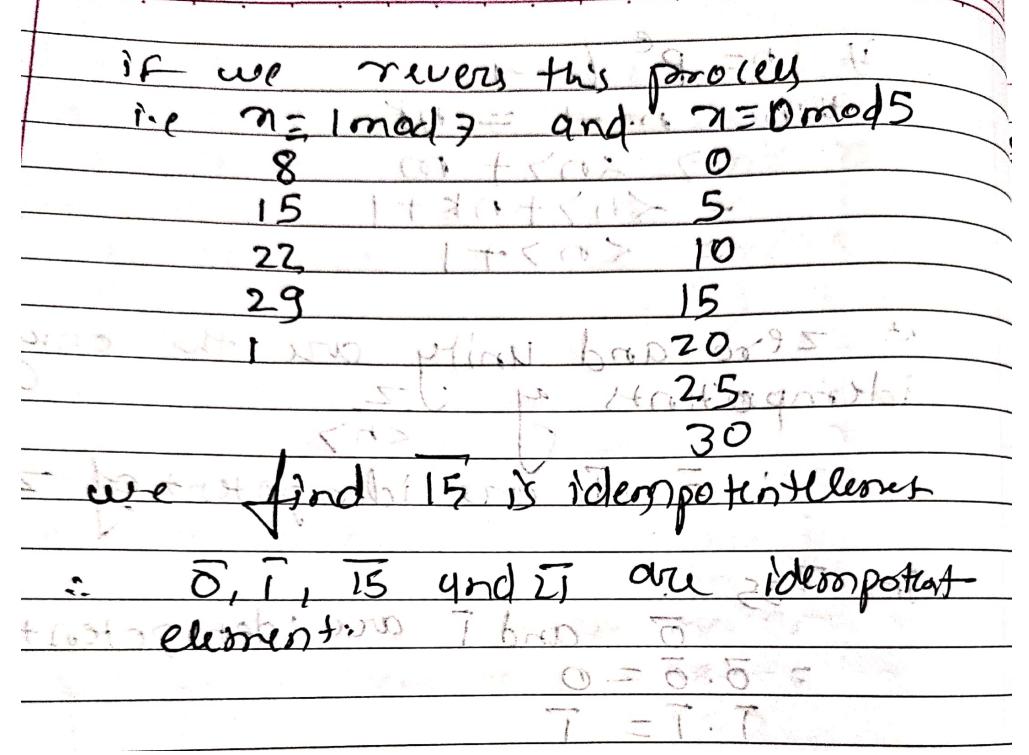
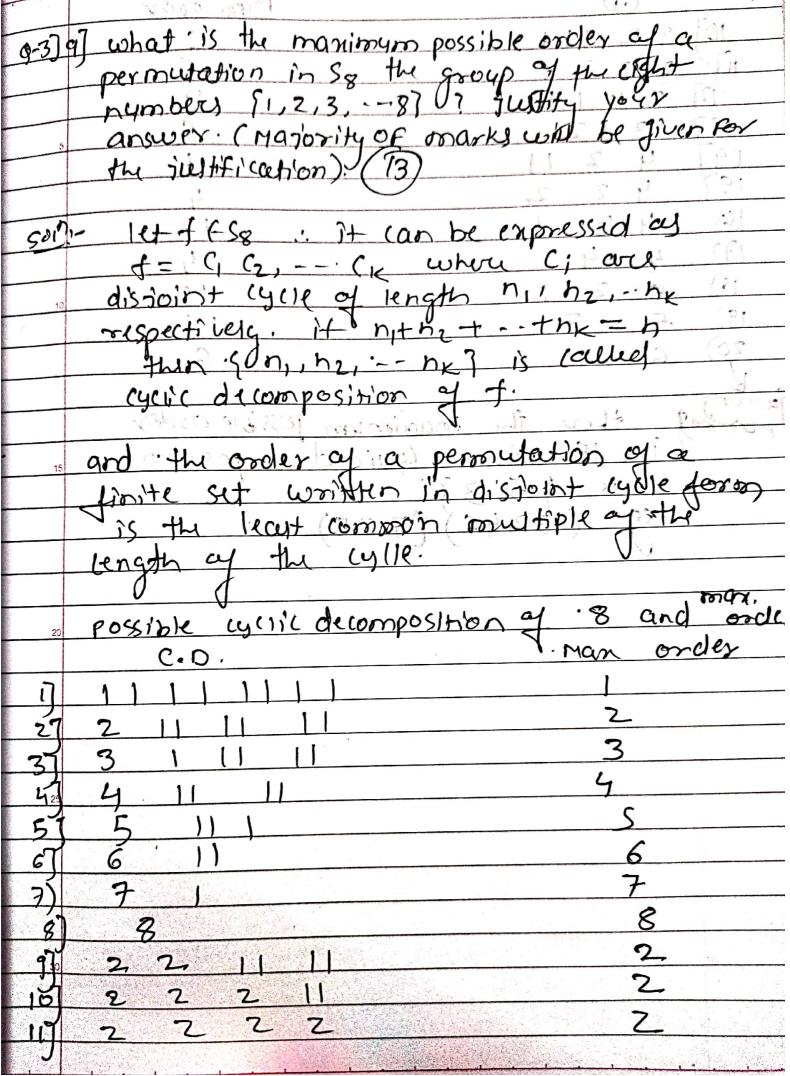
1) If in a Group of there is an element a						
of order 210, 42hot is the order of a220?						
Shows that TO Go is cyclic group at						
s order is a difficult by thin						
G losi a colon of arder to: (10)						
Tf in a Group Go there is an element a order 360; what is the order of a <sup>220</sup> ? Show that IP Go is cyclic group af order h and he divids h, thin G has a subgroup of order to.						
of we know that for a group G						
10 0(an) = 0(a) +afy						
(0(9), h)						
Given 0(9) = 360						
$= o(q^{220}) = 360$						
(360, 220)						
= 360						
20						
$\Rightarrow o(q) = 18$						
1et Gis a cyline group generaled by a						
af order h,						
1 G2(a)						
$a^n = e$						
let m divids n => n=mk						
we clairen that						
H= < ak > is a subgroup of orderm						
: His cyclic group generated by ak						
hence it's a subgroup eff.						
we have to show ofth = m						
1.6. o(ak) = b						









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