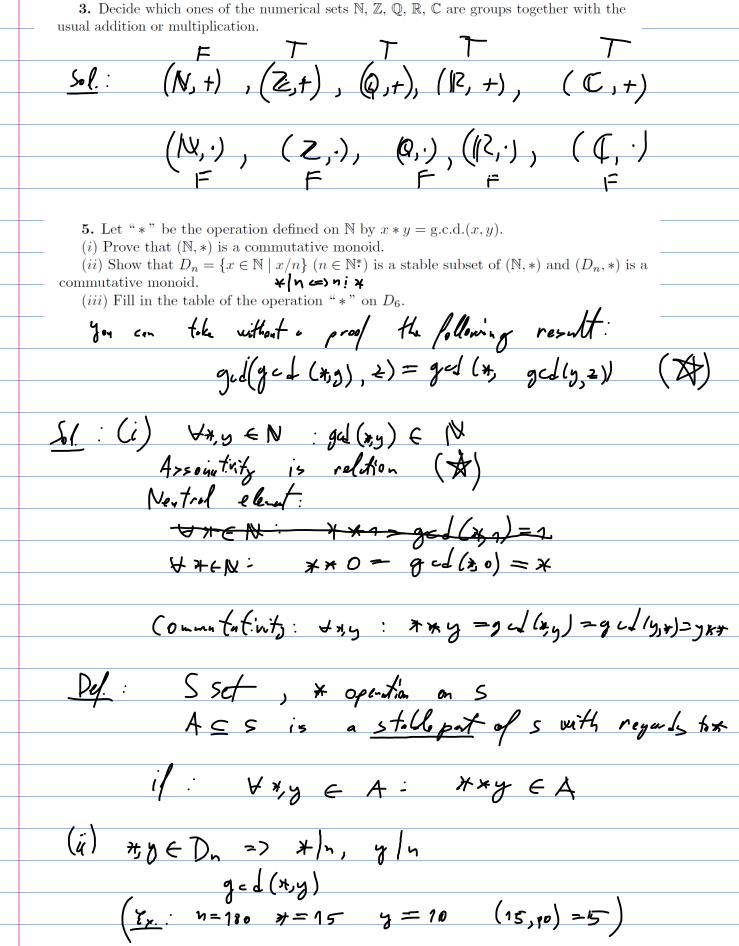
## Souina W1 - 914



gcd (ng) | x , x | h = ) gcd (ng) | h = ) gcd(ng) & Da Stable part of (N, x) (=) x is an op on Da )

The commutativity and associativity are inherested from (N, x).

0 \$ Dn => we will look for a different neutral clement.

ne Dn and + ++ Di: ++n = gcd (\*,n) = +

=> n is the newtral element of (Dn, \*)

(m) D6 = { 1,2,3,6}

	1	۷	3	6	
1	1	1	1	1	
2	1	2	1	2	
3	1	1	3	3	
( )	1	2	3	6	

**6.** Determine the <u>finite</u> stable subsets of  $(\mathbb{Z}, \cdot)$ .

Sol: Let S = R be such a subset

[xh hen infinite =) Sinfinite = contradific

$$>) \qquad S \subseteq \left\{-1, 0, 1\right\}$$