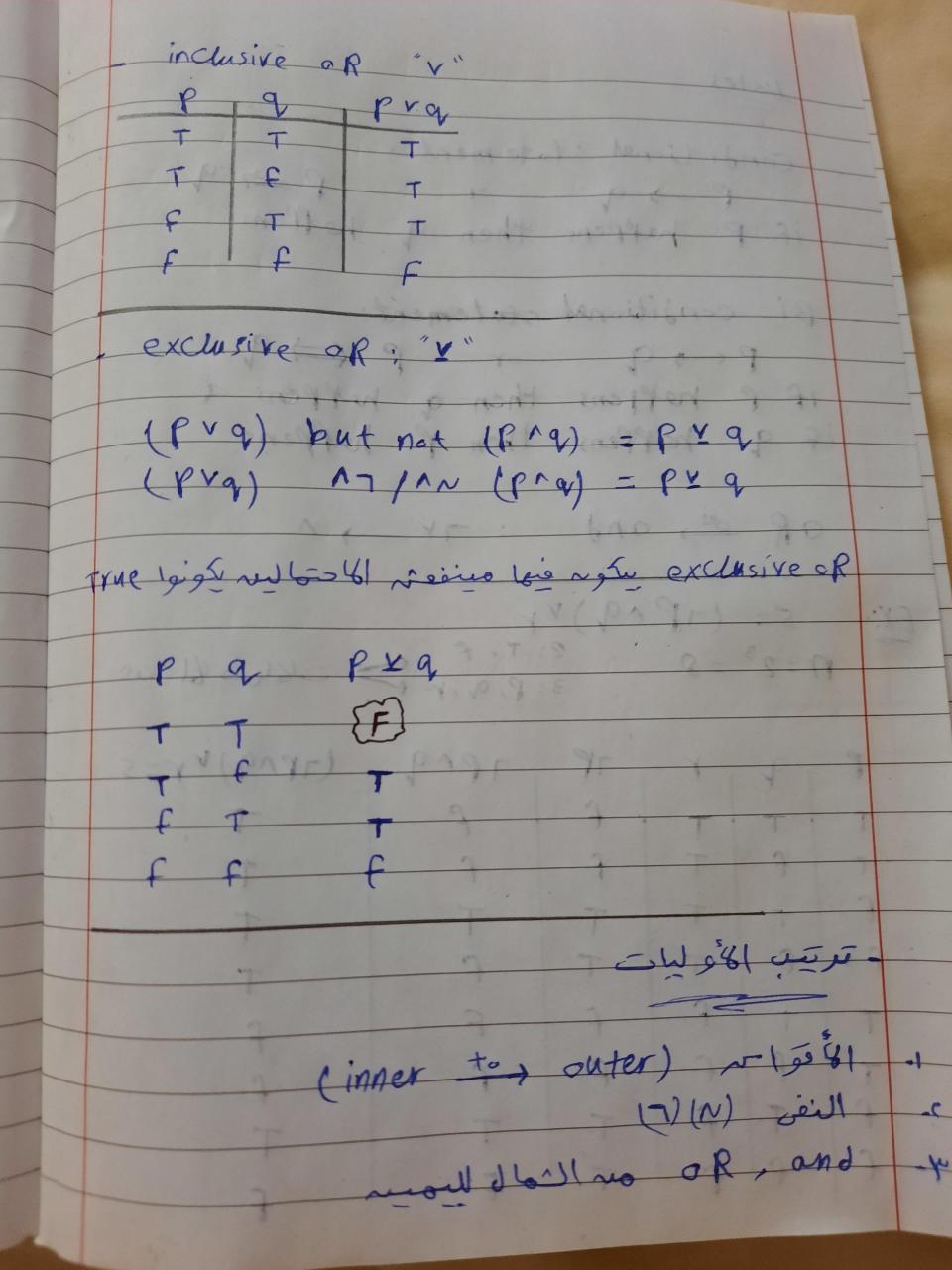
Lecture 1 statements (ProPosition). When we have only one value either (True) or (false), That is considered a statement or proposition. 5 - neither True nor false so itisn't proposition 3+2 -> 11 11 3+2= 1 7 4 1 3+2=5 -> True so it's a statement u+1=7 -> false " " " X+y >0 -> We don't have the values of x, y, so This case may be True or false (we have two values (false so [it's n'f] a state ment

=> Connectives: 1- Negation sail (7) (N) a rove cold one volve either true P TP/NP True 0 false @ foulse @ True () PND "^" 19 Pr9 The year that the on the X DILE SONY OR V" inclusive or > exclusive of



Notes Conditional statement: $P \rightarrow q$ or P = 7 qif p harpens then 9 haffens - Bi- conditional statement: Perq or P A if p nappens then q happens of if q happens then P happens 133 - (6,3) NUTLY (6A) OR iei, and : TV , 1 EX: $S = (\neg P \land Q) \lor Y$ $P = 2^3 = 8$ 2: T, F = 566561 significantly 2 : P, Q, YP 9 T TP TPM9 (TPM9) VY=5 TTFF TFFF FTTT FFTTF TTFF TEFF FTFT f f f T T