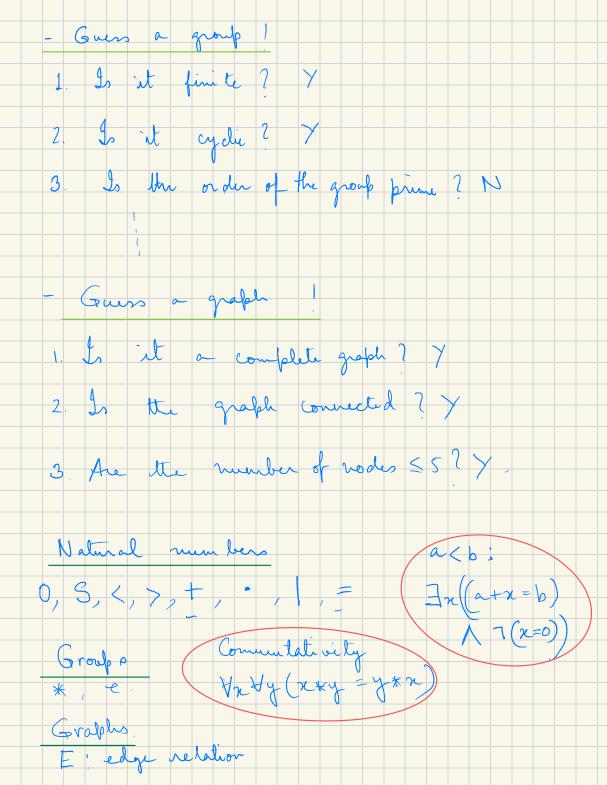
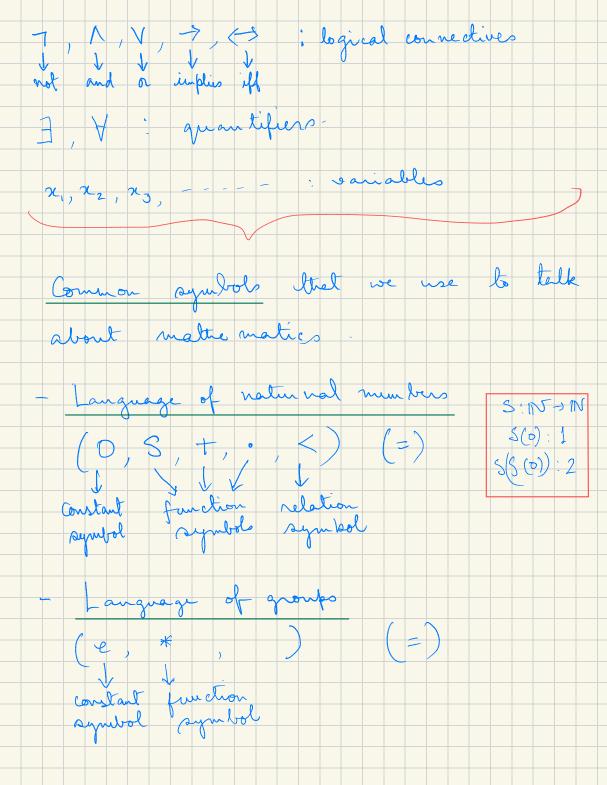
Lecture 1 08.01.2024 What is a set of rule on some logie? ? ?: to reason about statements - mathe vali cal lo gic study of mathematical reasoning What is our language to do such a A game of Y/N questions ! - Guess a member 1. Is the number even 7 Y 2. Is the number < 100? 3 Is the number < 50 ? N





- Language of graphs relation > predicate
symbols First-order langnages. Parameters of the language (C, F, 8) l'a countable collection of constant J. a rountable collection of bunction p a countable collection of predicate for each fEF # (f) gives the arity
of f.s. f. - for each p E 80, # (p) gives the arity
of p.s. p

2a+3y 5n, +7n3 +923+10ny. Examples 2x+3y=5x+7y] terms 5n + 2y + 62 = 0) formules A primitive formula is formula If a and of one formulas then PAV, PVV, P TV, PAV, 7P, TV are formulas - If Q is a formula and n is a variable then Yn Q, In P are formulas What is a farini tive formula? ble an own this in the next class