

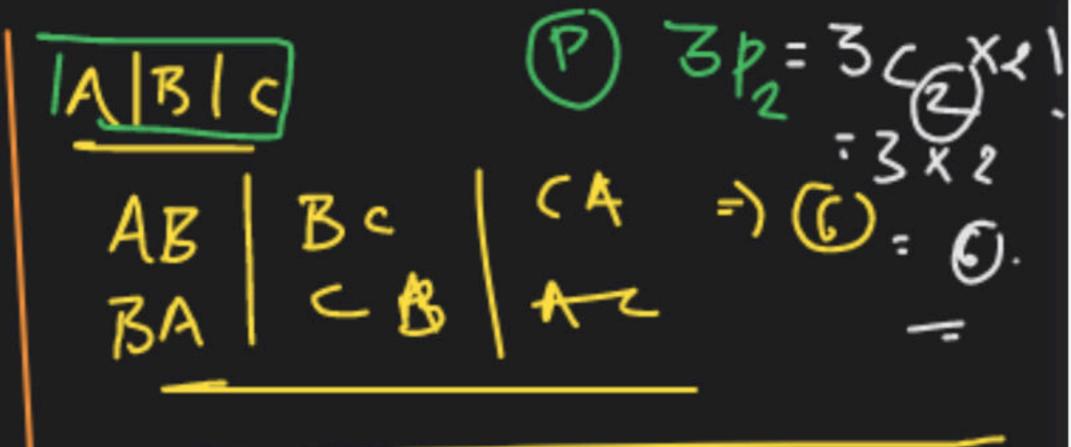
Course on General Aptitude for GATE 2022-23 Batch - Part I





PERMUTATION COMBINATION

COMBINIATION PERMUTA 710N Selection followed by 1 A 4 T B 4 T C. = 3 C 1 = (3).



$$np_0 = n \times 2 \times 2 = 1 \times 1 = 0$$

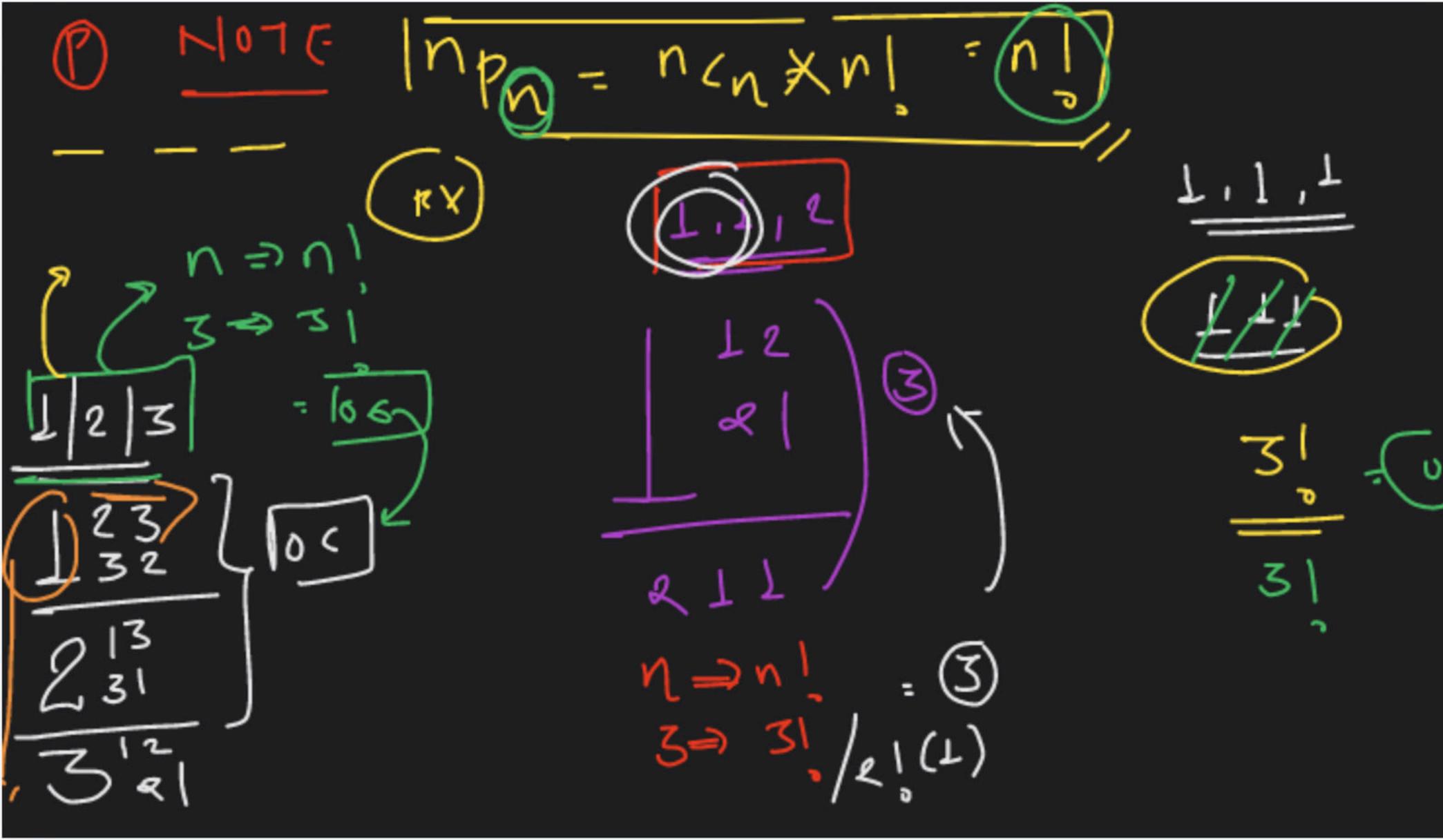
$$np_1 = nq \times 11 = n \times 1 = 0$$

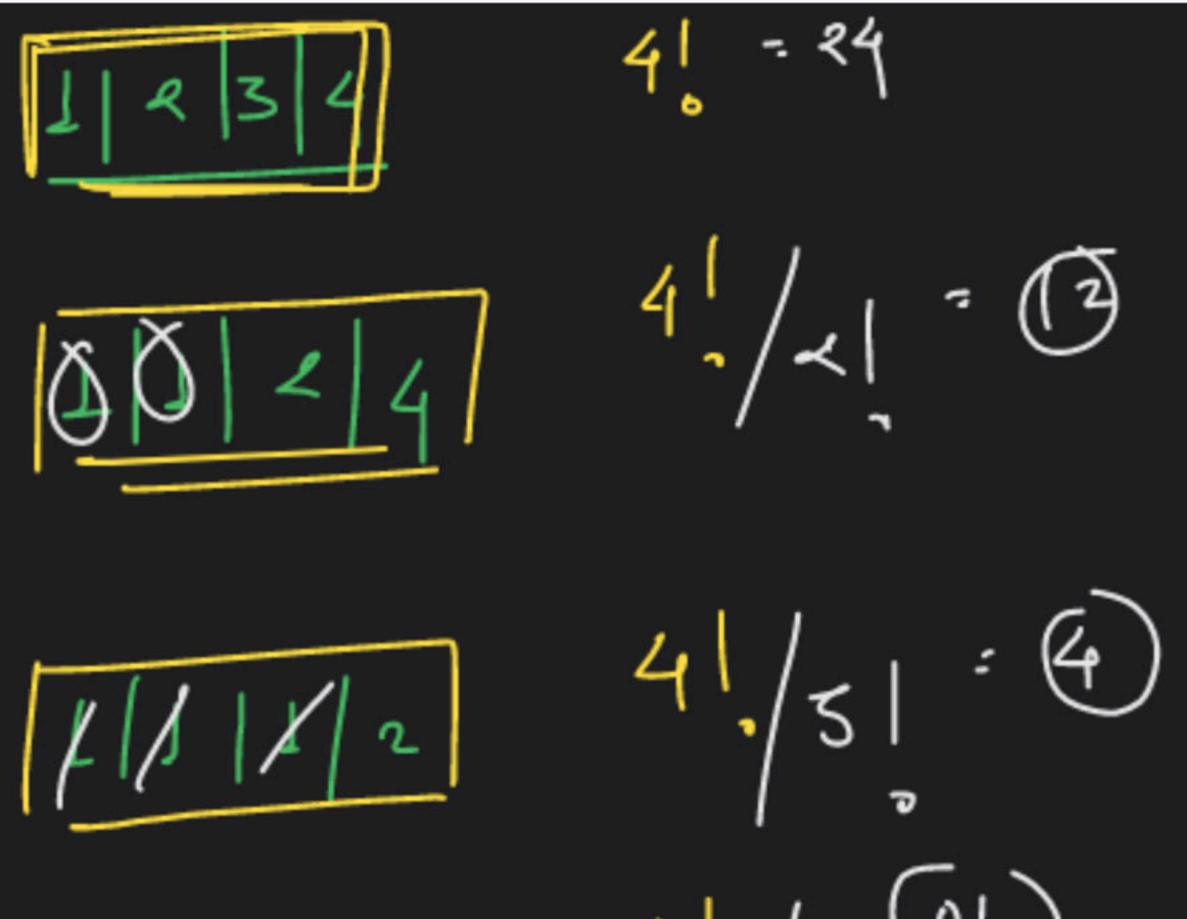
$$np_1 = nq \times 11 = n \times 1 = 0$$

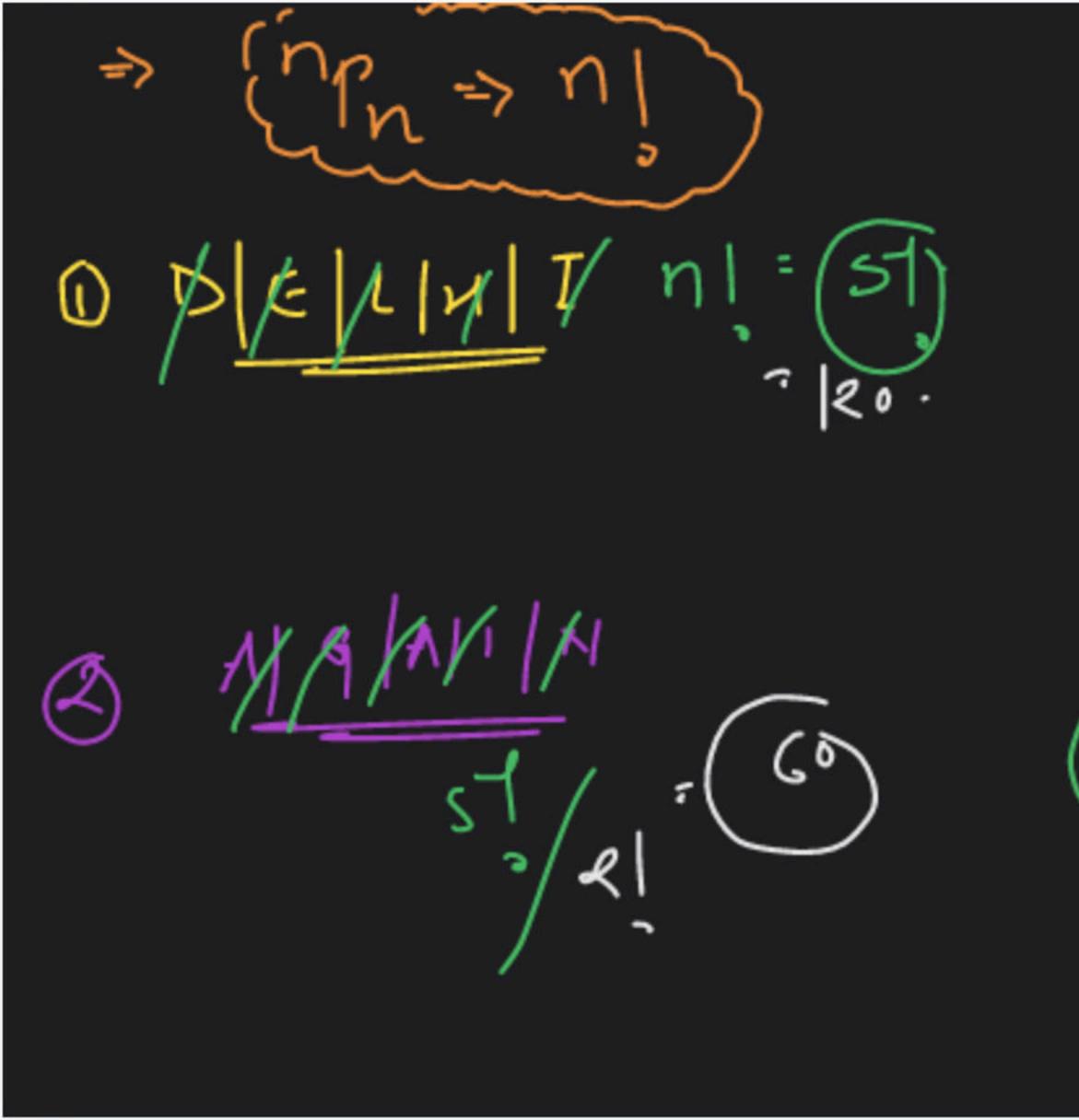
$$np_1 = nq \times 11 = n \times 1 = 0$$

$$np_1 = nq \times 11 = n \times 1 = 0$$

$$np_1 = nq \times 11 = n \times 1 = 0$$









71/21.31







Agenda: Letters Arrangement





- Q.11 How many different words can be formed from the letters of the word GANESHPURI when:
- All the letters are taken. (= No condition)
- (B) The letter G always occupies the first place.
- (C) The letters P and E respectively occupy the first and last places.
- (D) All the vowels are always together.
- (E) How many words of 5 letters each can be formed each containing 3 consonants and 2 vowels?
- (F) All the vowels are never together.
- (G) No 2 vowels are together.

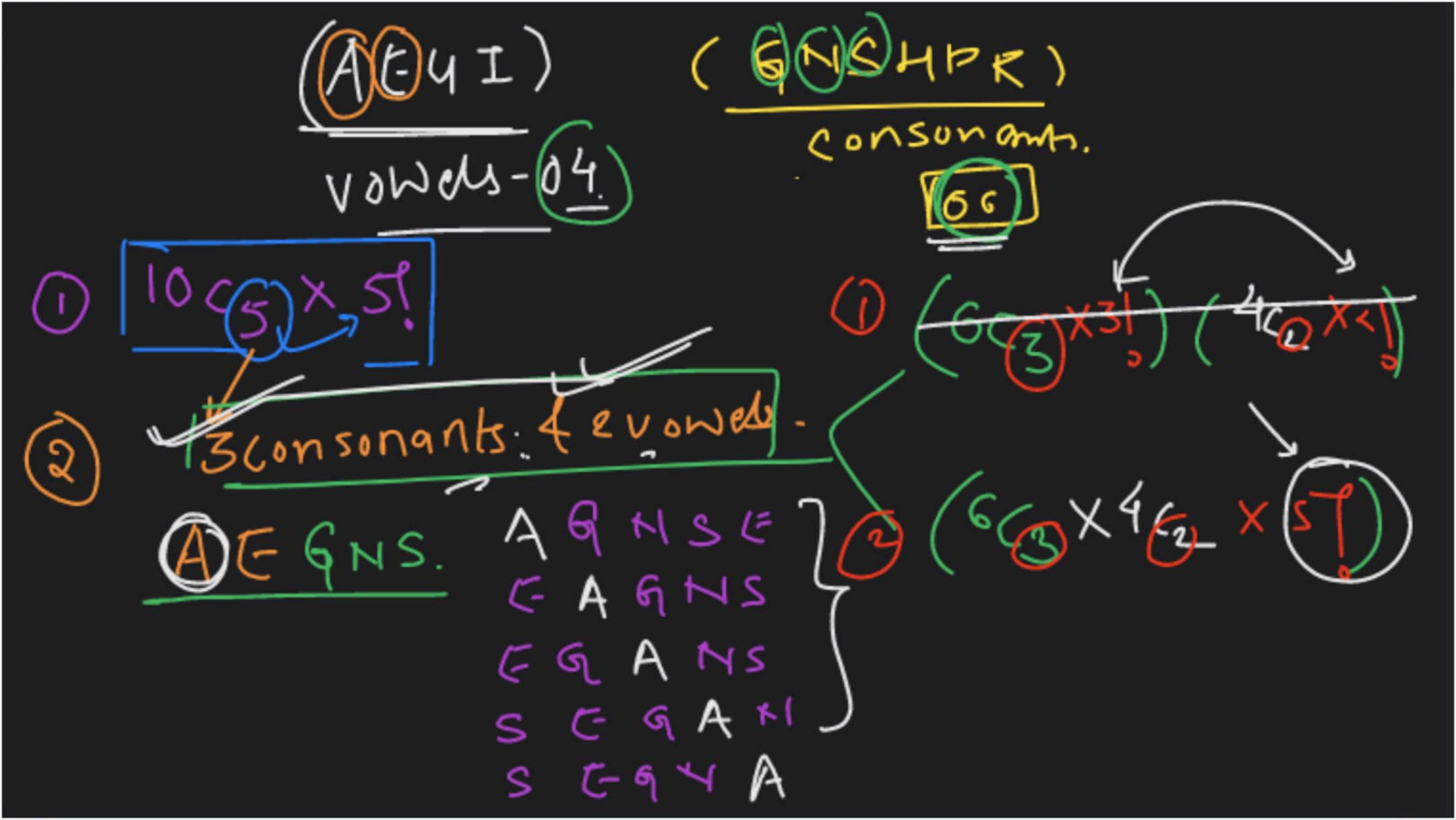
NEIS HIPIURII NESHPURI AMSHPURI 3 4 5 6 7 8 9 ANGSHYI a ANCESH 18980

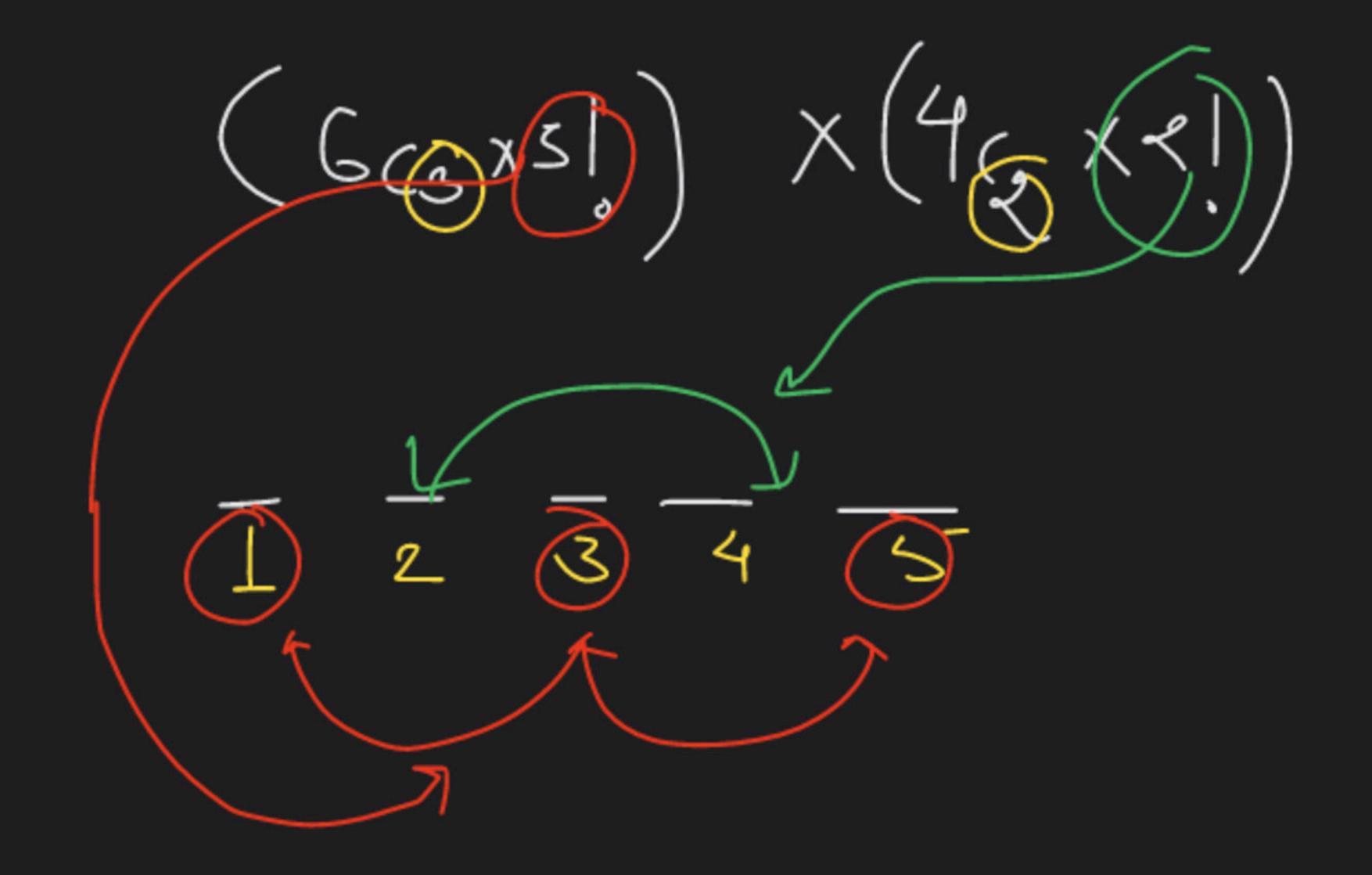
Vonels. Consonants

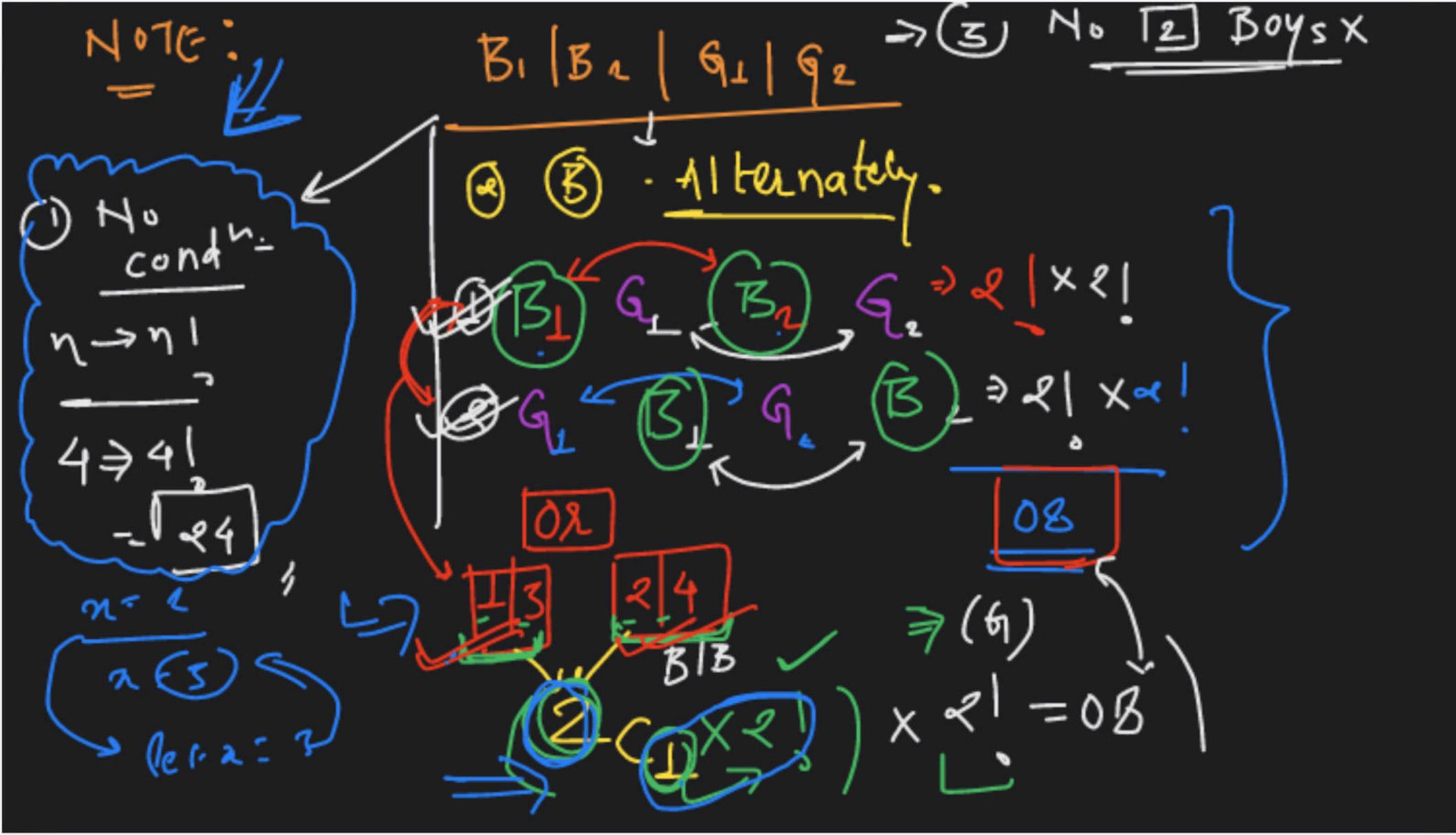
51 X C | (X (A T X) C | 2 -

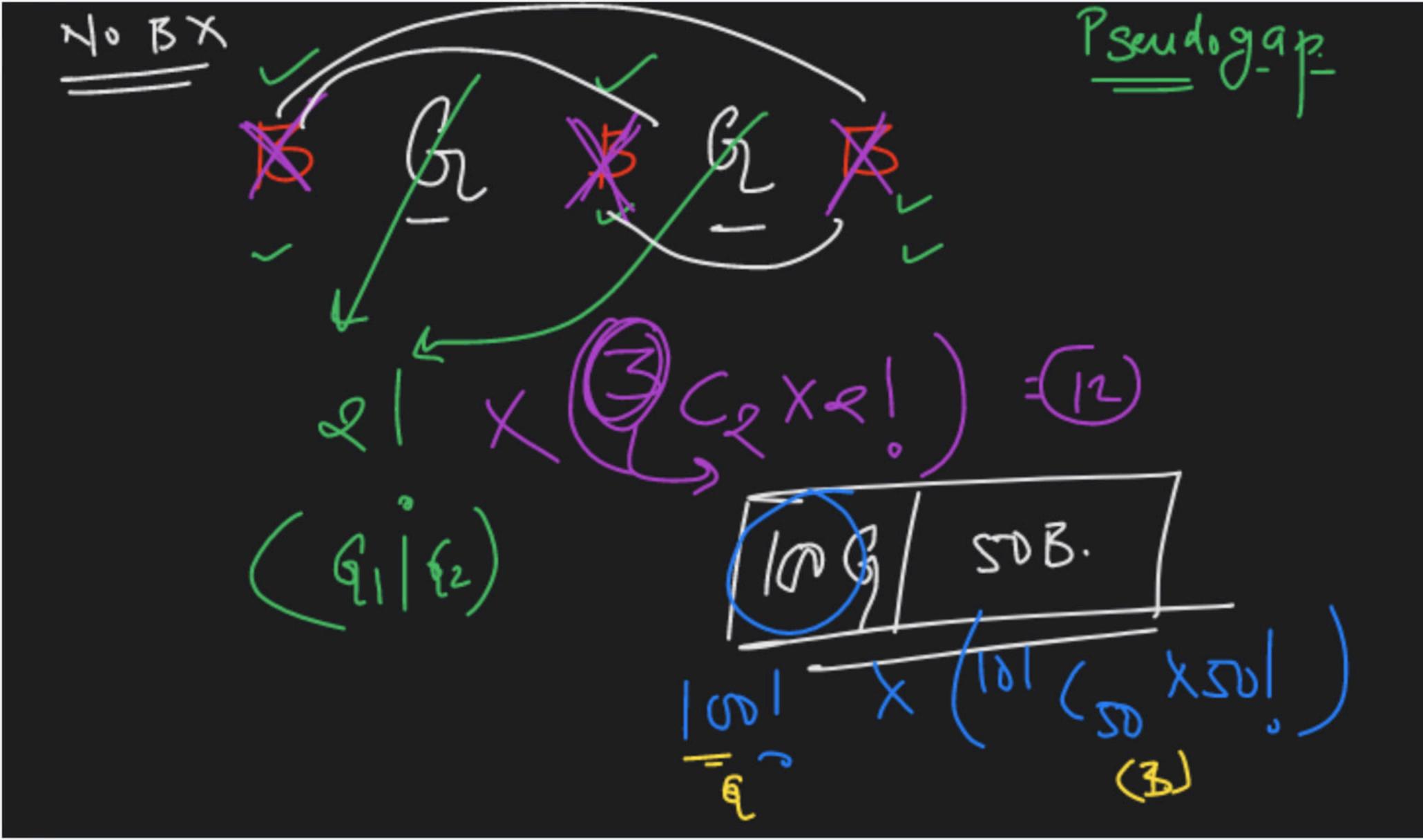
GANESHPURI Vomols x GNS 4PR 1 2 3 4 5- (2 = T1 x4 7/X4/ CANS 4PREUD GANGSUPRUI)

GANESH PURI (AE41) (6) (A X 4!) XGXXIXSXHXPXR

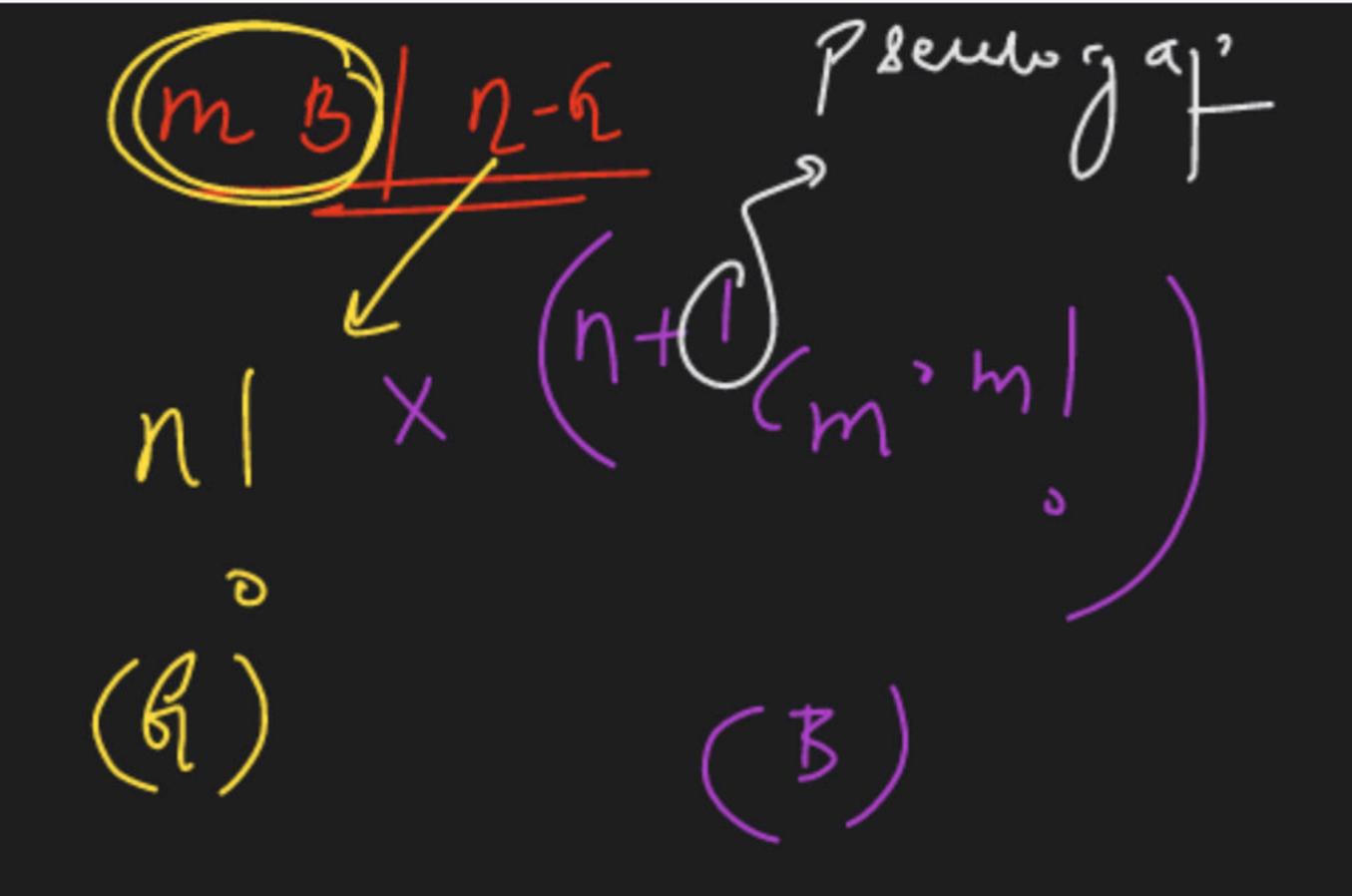


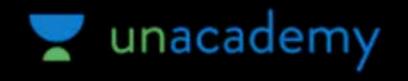






5G/3B.







Agenda: Team Formation



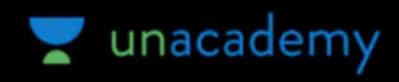


- Q.12 How many committees of 5 members each can be formed from 8 official and 4 non-official members in the following cases:
- (A) Each consisting of 3 official and 2 nonofficial members.
- (B) Each contains at least two non-official members.
- (C) Each consisting of at most two official members.
- (D) A particular official member is always included.
- (E) A particular non-official member is never included.





Q.13 Out of 8 men and 10 women a committee consisting of 6 men and 5 women is to be formed. How many such committees can be formed when one particular man A refuses to be a member of the committee is which his boss B's wife is there?





Q.15 A three-member committee has to be formed a group of 9 people. How many such distinct committees can be formed?

(A) 27 (B) 72

(C) 81 (D) 84

[GATE 2018: IIT Guwahati (CE Set - 2)]





Q.16 An e-mail password must contain three characters. The password has to contain one numeral from 0 to 9, one upper and one lower case character from the English alphabet. How many distinct passwords are possible?

(A) 6,760

(B) 13,520

(C) 40,560 (D) 1,05,456

[GATE 2018: IIT Guwahati (EE Set - 1)]