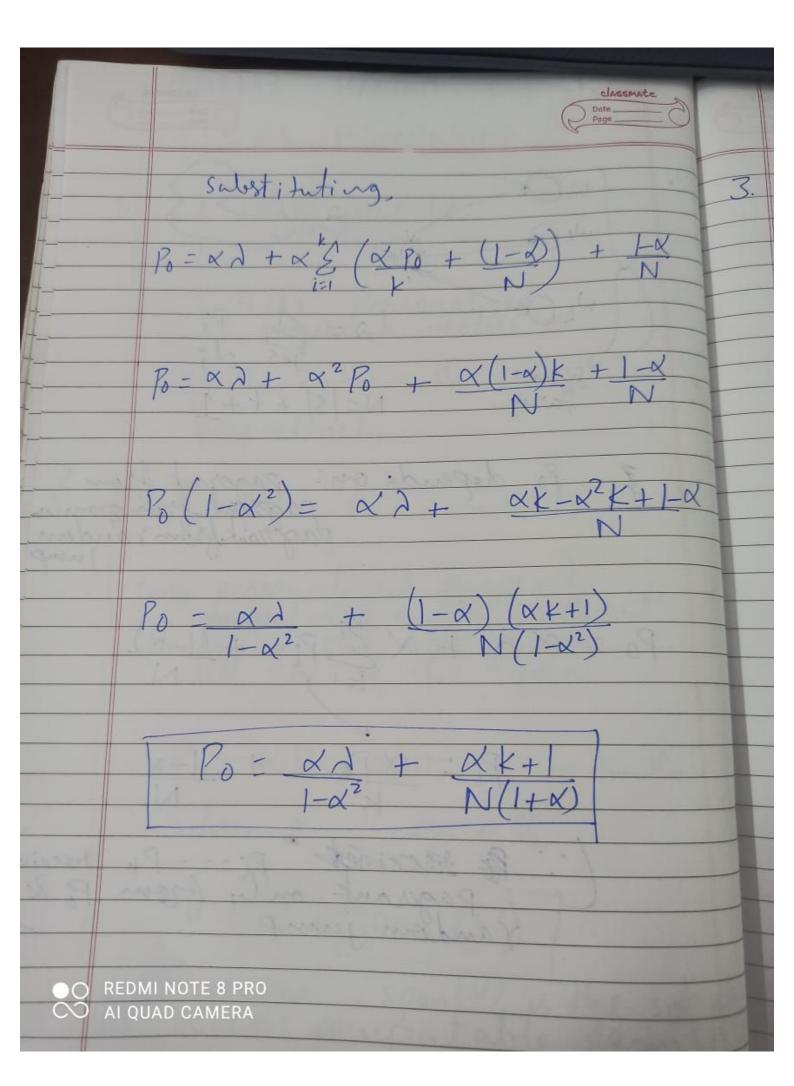
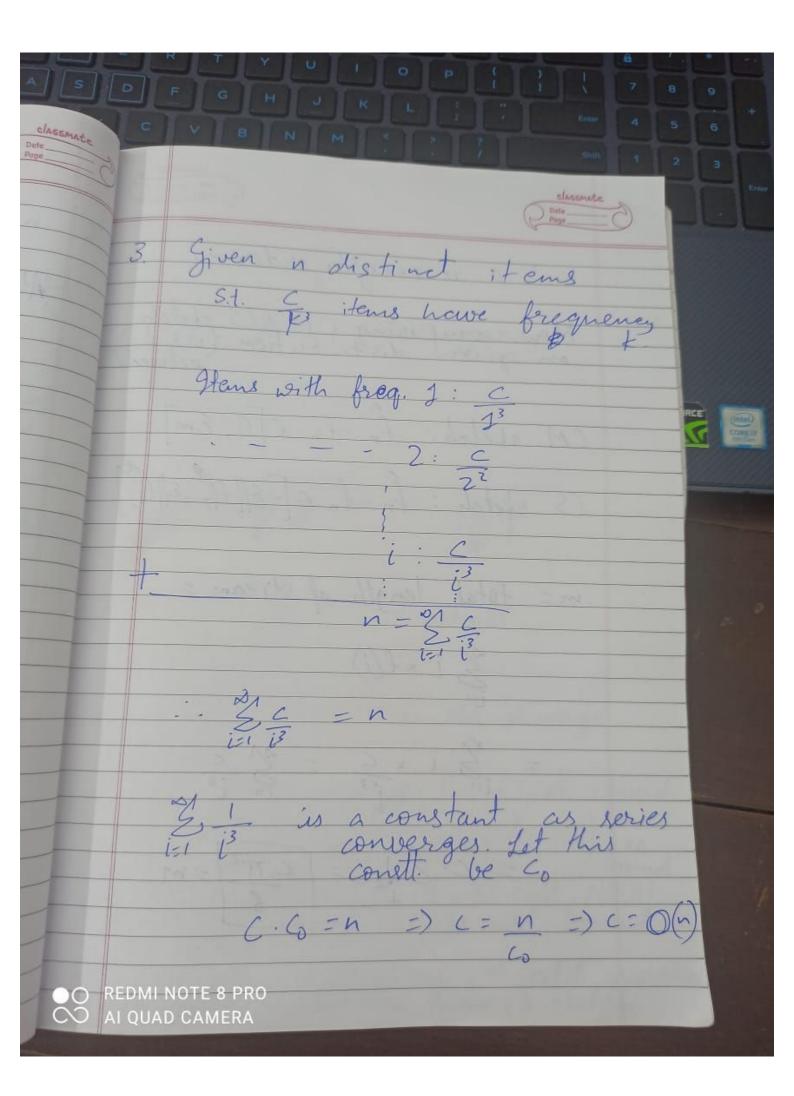
18110063 HARSHIT KUMARIASSMALE CS328: HOMEWORK2 1. Let set of users be fu, --- . Ung & their personalized pagerant vectors be respectively V = of v, v2 -- - on} Any personalized pagerant computed from V, without accessing the neb graph will be of the form: 19° - X, 10, + X2 U2 + - - - Xn Un where a. - - an ER · v' E Span (V) O REDMINOTE 8 PRO O ALQUAD CAMERA

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c is roughly order n. Now, comparing (M ) (S sketch on given distribution (w2 d CM sketch: fn-fn E[0, Em] CS sketch: fn-fn & [-8/1+/2, 8/1+/2] length of stream = REDMI NOTE 8 PRO AI QUAD CAMERA

11 fl/2 = 1262 c items have frequency k 1 S. fi JES C (K)2 = Z C diverges Ex will also diverge. : 11 flz diverges & is u M statch: fn-fnE (S skotch: fin-O REDMINOTE STROT PERFORMANCE than CS sketch.