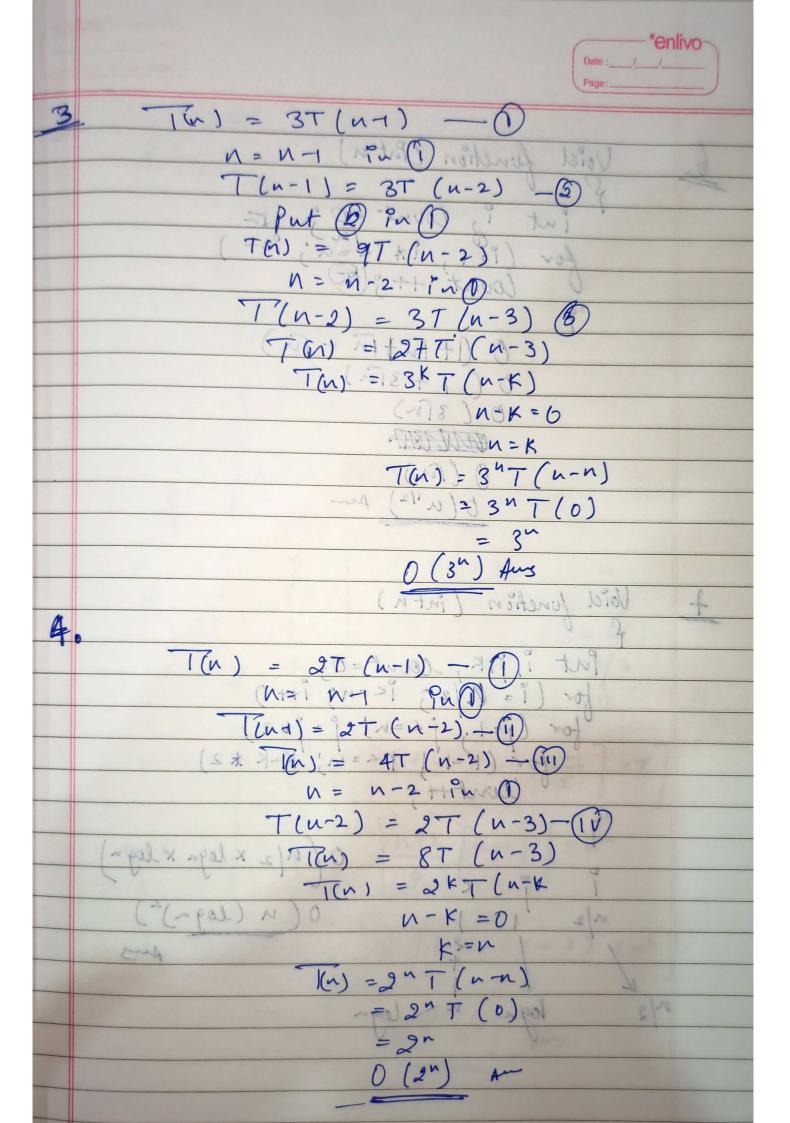


· My Theta (D) f n = O(g(n)) $G(n) \leq f(n) \leq (2 g(n))$ $G(n) \leq f(n) \leq (2 g(n))$ $G(n) \leq f(n) \leq (2 g(n))$ $G(n) \leq f(n) \leq f(n) \leq (2 g(n))$ $G(n) \leq f(n) \leq f(n) \leq f(n)$ $G(n) \leq f(n) \leq f(n) \leq f(n)$ DAME + Visibian Sharms Lond at built been our mother on statement (1) 12, 4,8, ~ ~ ° (6) ° pid. let Kth term €n 0K) Justani will = 1, (2K1) Taking log on both Dicles logn = K-1 log2 2 som pid.

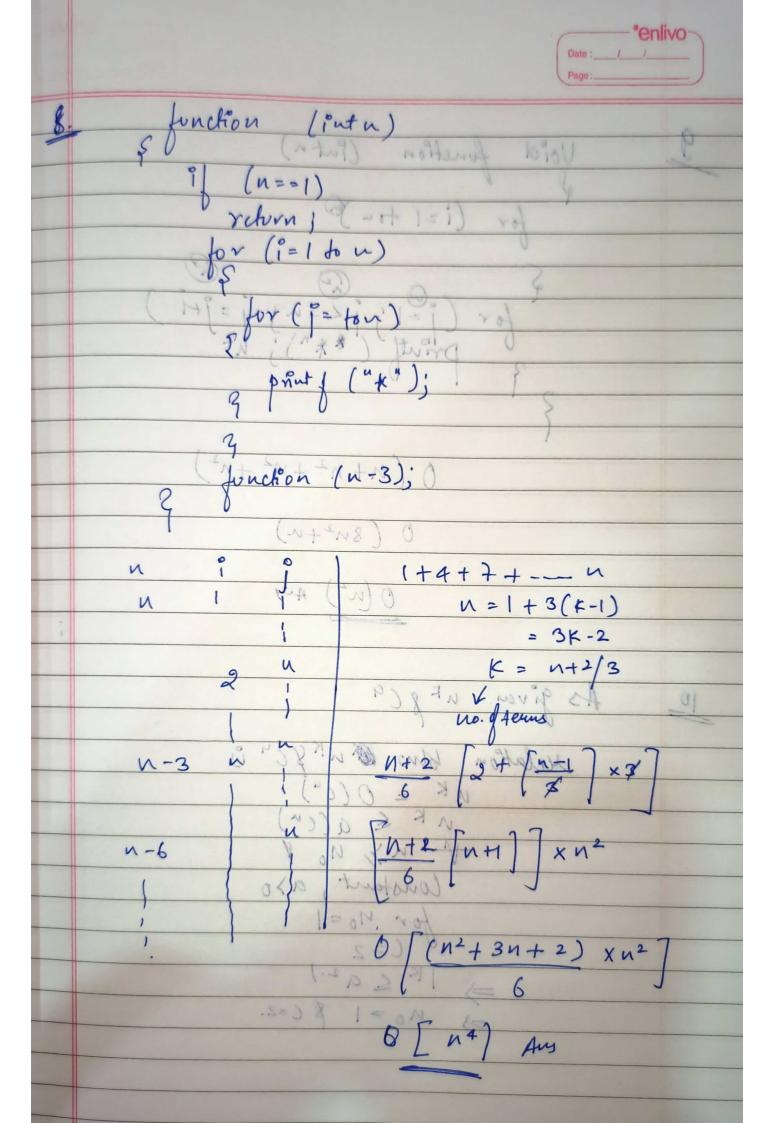
(Mp) 5 K = (1+ logn

0 (1+ logn) (MP) K b) (logn) Am Be proad mare) tryit " is (1)



(FN) TE = (N) Void function (Put n) int i, Count 20 ; 5
for (i=1; i*i=1; i++

Count ++; (m) (EO (I+ m+m+m) 0-10/(3/n) 0 (m) (0) TNED (11/2) Au (13h) Aus Void function (int n) Put i, j, K., Count = 0; for (i = 1, j < = n; i++1) for (i=1, j < = n; f = j * 2) for (K=1 j K < = n; K=K * 2) Count ++; T(4-2) = 2T (4-3)-(1 O(u/2 x logn x logn) u (logn). (n) = 2 m



Void function (Put n) for (i=1 to 10 moby 0 (u+n2+n2+n2) 0 (8n2+n) (1-7) 8+1=N 0 (n2) Aug = 34-2 As given ur g Ca sulation blu unkycy is $uK = O(c^{u})$ $uK \leq a(c^{u})$ W = u $u \leq u$ XNZ · Constant, a>0 $for M_0 = 1$ C = 2 $||C| \leq \alpha^{2}$ => NO=1 & C=2.