Solutions: find the value of T(2) for the recurrence

T(N) = 3(T(n-1)) t 12n, given that T(0)=5

T(n) = 3T(n-1)+12n (1)

T(1) = 37(0) + 12 - (1)

put T(0)=5 in equation (1)

T(1) = 3×5+12 = 27

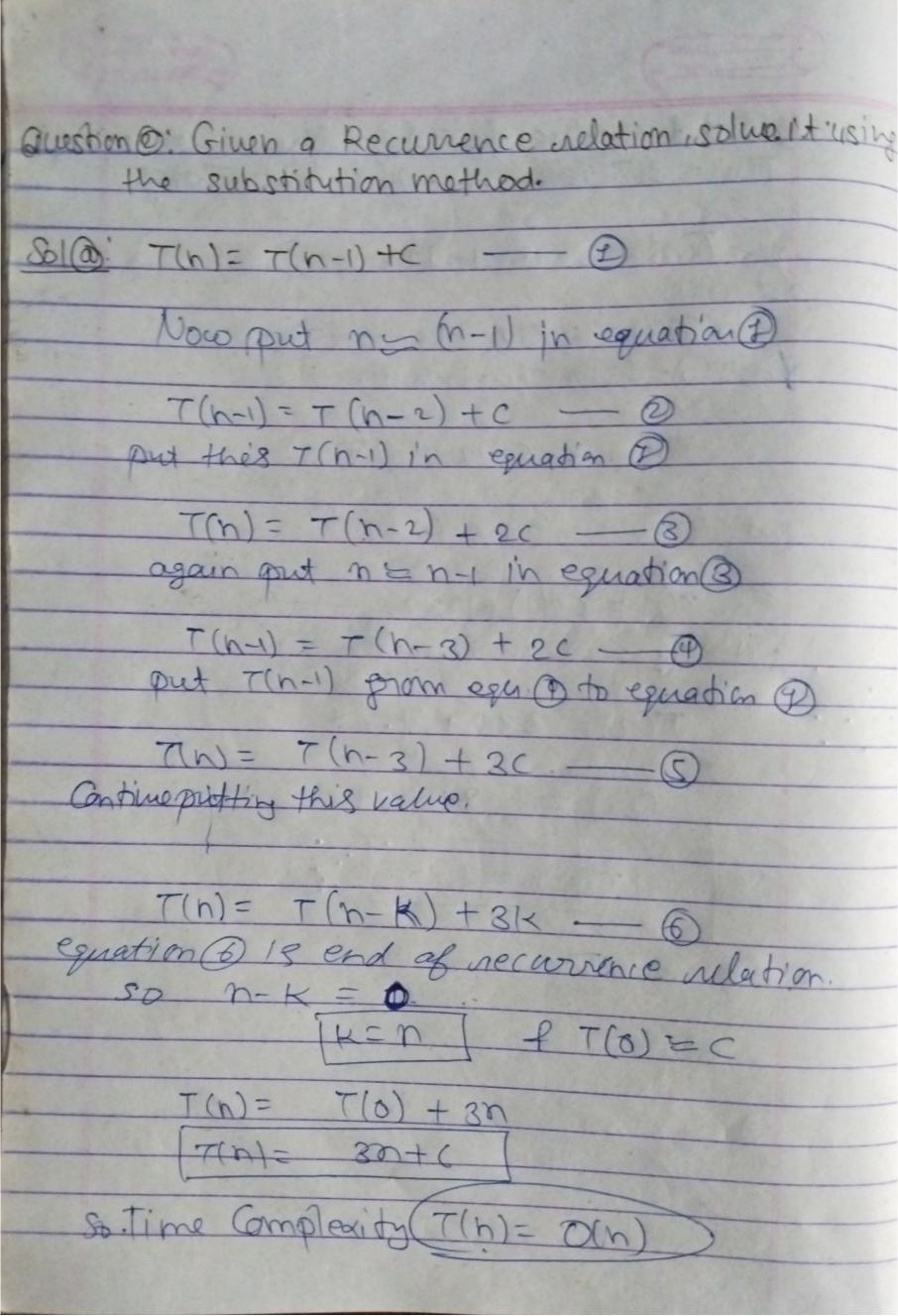
put T=2 in equation I

7(2) = 37(1) + 12x2 - (11)put 7(2) = 27 in equation (11)

T(2) = 3x27 + 24

T(2) = 81 + 24

T(2) = 105 ins



By a conflexity:
$$T(n) = 2T(n/2) + n \rightarrow 0$$

put value of equility to the equility of the equil

