

 $T(n) = T(\sqrt{n}) + n$ · T(n) = T(√n)+n → T(n) = T(n/2)+n · T(n) = T(n1/4) + n1/2 + n · T(n) = T(n1/8) + n1/4 + n1/2 + n Factorizando. $T(n) = T(n^{1/33}) + n^{1/23} + n^{1/21} + n^{1/21}$ $T(n) = T(n^{i/2^{n}}) + \sum_{k=1}^{\infty} n^{i/2^{k-1}}$ Cambio de Variable: n1/29 = 1 n = 1 1/2° 0 10g n = ? Reemplazando: $T(n) = J(1) + \sum_{k=1}^{N} n^{1/2} \log n^{-1} = n$ 0(1+1) O(n) + complexidad

Tema:

3)
$$T(n) = T(n)$$
 $+ 2n$
 $+ 1\log(n)$
 $+ 1\log(n)$
 $+ 1\log(n)$
 $+ 2n$
 $+ 1\log(n)$
 $+ 1\log(n)$

<u>Gn</u>bre