$$0 128 \sqrt{3^{2}} \cdot n^{2} = 0 (n^{9})$$

(1)
$$f(n) = n - 10$$
 $g(n) = n + 10$ $g(n) = \vartheta(g(n))$

Note: - 1(n) < cg(n) of 1(n)> c.g(n) i, e Bolt Bigo and Bigomya

$$\frac{2ig0}{f(n)} = \frac{Cg(n)}{f(n)} > = \frac{C \cdot n + to g(n)}{f(n)}$$

 $\frac{1}{n-10} < = \frac{C \cdot n + to}{f(n)} = \frac{1}{n-10} + \frac{1}{n-10}$

Hume los b(n)= & (q(n)) - > There.

2 employed extens @ Cylogon - 0(25) - (0) 2 n log 264. n log, 32 = 0 (n5) 2 2 n log26. n log25 = 0 (n3) 2 n/= 0(n5) B.g 0 1 (n) <= c.g(n) n" <= c. n5 n'1 <= n'n5 when c=n => where n is no = n " = n" (a constant, :. If is falm 2.9 0 -> Falm (1) 4" 123 0 (2")) 1.0 ((1) 1 (1) (1) (1) (1) 1. - 1. 4/ 2 8x2 0 (2n) ساله ماس 0 (0) 654-V 2 1/2 B C. 21 = 2 and of 4 M = 12 - 11 0) 27 <= 27 Wien C=10 Bigo -> Phue (5) 128 1927. n2 2 6 (n2) 0 0 128 6921, n=>= <, n) 100 nlog 2, n 10= c, n9 100 1 Lyset 12 0 T= @ c in 1 290 W n 7 n 7 se n 9 0 = n9 ()= n9 128 1977 = 0 (n9) -) Thure 1 3 3 ! bole (1(1)) € (1(1))-0