	<u> </u>	0	
	1+651G	IMMENT-2	1 - 1
00>		0 >	1 gt attached
f(n) =	n-10	g(n)=	ntlo
		f(n) =	0(g(n))

when c=1, the equation is satisfied.

Omega: F(n) > C; q(n)

> N-10 7 C. (n+10) If n=100 and C2=1/2 then;

100-10 7 1 (100+10)

90 = 55

128 n = 0 (n9) Big-0: FCn) L C, gCn) 128 g2 N = N.C, 1092128 · n= n° C, $\frac{n^{3} + n^{2} - n^{2} - n^{9} \cdot C_{1}}{n^{3} + n^{2} - n^{9} \cdot C_{1}}$ $\frac{n^{7} + n^{2} - n^{9} \cdot C_{1}}{n^{7} \cdot n^{2} - n^{9} \cdot C_{1}}$ $\frac{1}{2} = 1 + \frac{1}{2} = 1 +$ >> fa) = 0 ga) Omega: f Cn) z Cz. g Cn) $\frac{128^{92^{N}} \cdot n^{2} = C_{2} \cdot n^{9}}{n^{7} \cdot n^{2} = C_{2} \cdot n^{9}}$ $\Rightarrow C_{2} = 1$ $\Rightarrow True$ >> f(n) = ~ (g(n)) 3) Therefore f Ch) = O Cg Ch)

f(n) = n g(n) = nf (n)= 0 (g cm) 3 f (m) = 0 (g (m) pa) z (3 (gcn) 3) Therefore f(n) = O(g(n))

