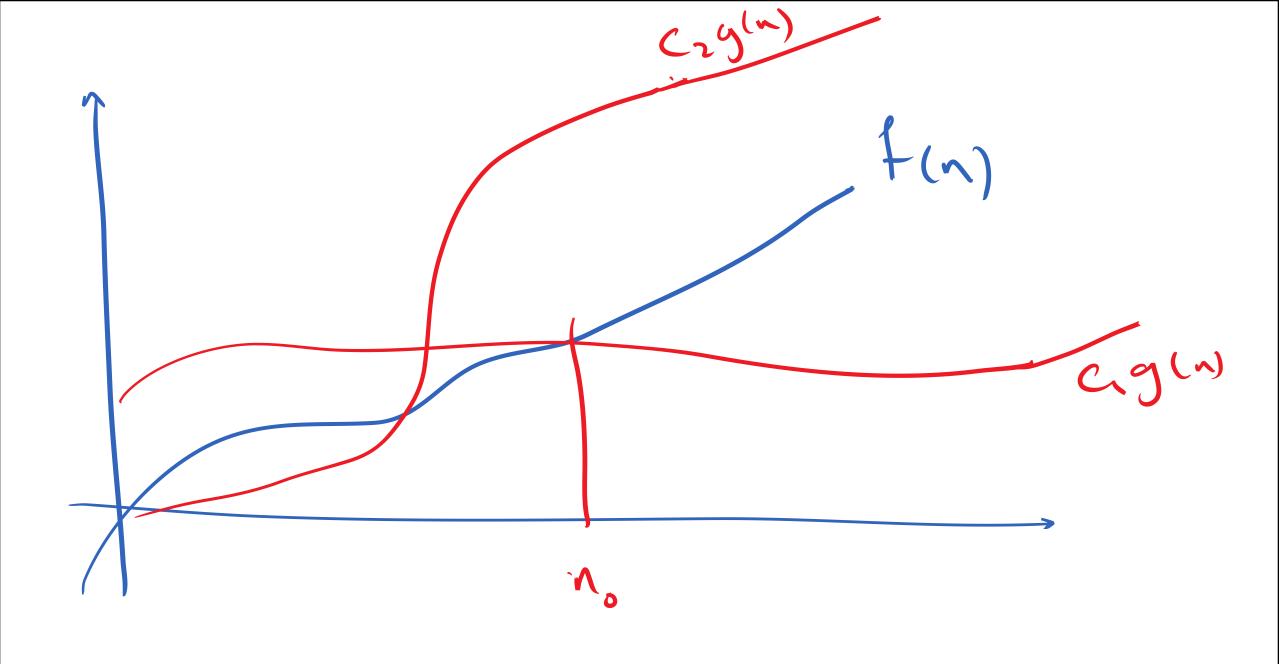
$\theta \leq 0 = \omega$   $f(w) \in A(a(n)) \longrightarrow A(a(n)) = 0$ 

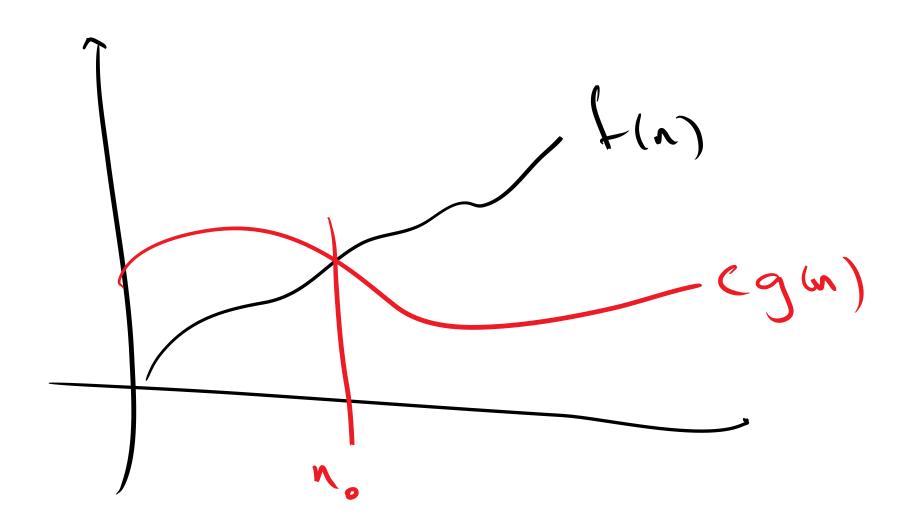
 $f(n) \in \mathcal{F}(g(n)) \Leftarrow \mathcal{F}(n_0, C_1, C_2)$ 

Vnn, egu, éta) (czga)

 $f(n) \in \mathcal{G}(g(n)) \subset \mathcal{F}(g(n)) \subset \mathcal{F}(g(n))$ V n>n. egu, (f(n) (c2961) fup5n²-20 Ed(n²) C, < 5 - 20 ~2  $C, n^2 \leq 5n^2 - 20 \leq C2n^2$ n = 520 C, n2 (5, 2-20 5-20 (Cz - 5 C, & S- 20



 $f(n) \in O(g(n))$ :  $\int_{-\infty}^{\infty} J(n, x) dx$ 7 n, f(n) (cg(n)) fme N(g(n)): } Jn., c 7 n, o((g(n) < fa)





ز جودراس BUNEI ~ 5 (n) w  $A(n) = \sum_{i=1}^{n} \frac{1}{\sqrt{x}} \sum_{i=1}^{n} \frac{1}{\sqrt{x}} \frac{\sum_{i=1}^{n} \frac{1}{\sqrt{x}} \frac{\sum_{i=1}^{n} \frac{1}{\sqrt{x}}}{2}}{2}$ A(n):  $\sum_{i=1}^{n} P_{xi} + (I-P)xn = P_{xx}(n+1) + (I-P)xn$ 

fin) to digin J c,, c2, no 日とりい。

Cg(v) (f(r) (czg(r)

f(n) E smallg(n) Acr Jus Aulus.  $n^2 + 2n \in o(n^2)$ 2+2n (Cn<sup>2</sup> 1+2 < c

o Lfin (cgln)

finit right) cg(n) (f(n) cr (n-4n C-0X

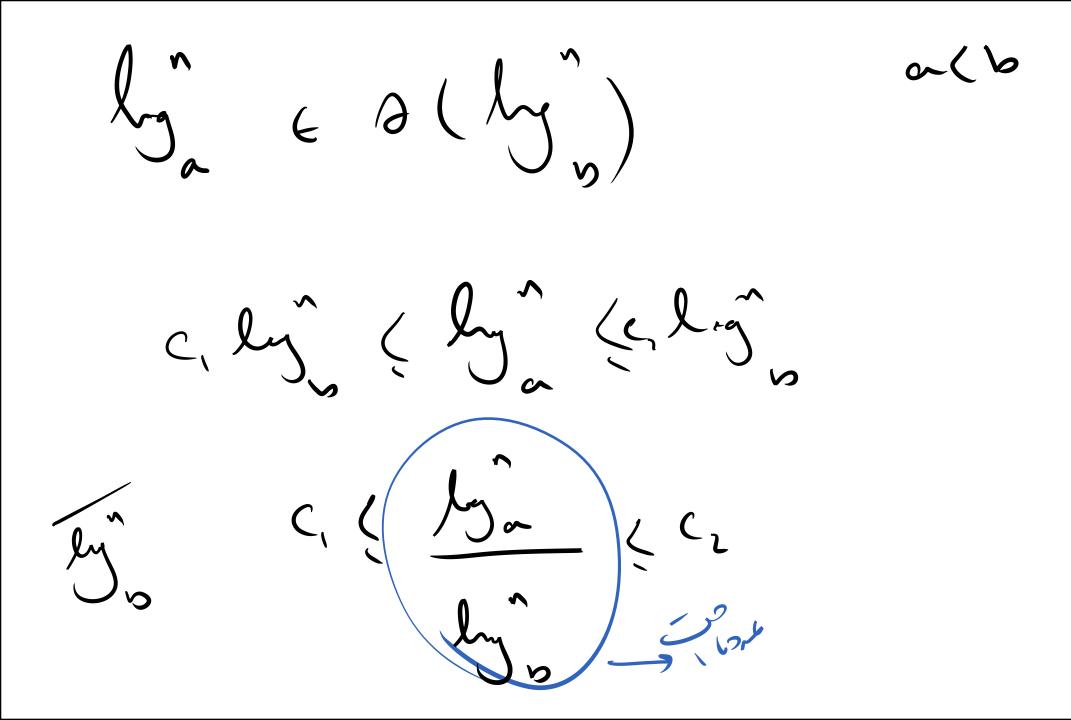
 $4n^{2} + 3n - 5 \in \theta(n^{2})$ 

Av>v°

うれ。ここにとう。

(, n² (4 n + 3n -5) (C2 n

C, (4+3, -5, (C2 C, (3, -5, (27)) C, (3, -5, (27))





find gind fintw (gm) fine SL (gin) ghit olfini) glas & O (fin) (v) fun to (g(m)) Fluit & (glui) fluit & O(glui) ~ 300 g(n) 3 la) + & If (h)) Nie とりはん, fu1 6 0 (3(a)) fly (Oglas) ghit w (fm) 9(n) & S (f(n))

Tr Ed (lg(n)) Li In hop li 25 n