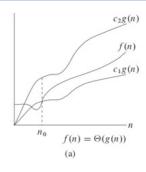
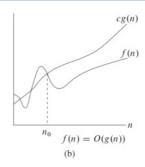
Notación Agentófica

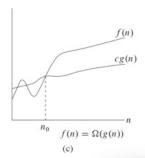
$$\mathcal{B}(g(n)) = \{ f(n) : \exists c, >0, c_2 > 0, n_0 > 0 \}$$

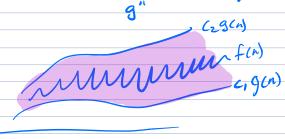
 $0 \le c, g(n) \le f(n) \le c_2 g(n) \quad \forall n > n_0 \}$

$$f(n) \in (H)(g(n)) \iff f(n) = (H)(g(n))$$









$$n \le 1 \quad \frac{1}{2} - 3 = \frac{5}{2}$$

$$n=3 \quad \frac{1}{2} - \frac{3}{3} = -\frac{1}{2}$$

$$n \neq 7 \quad \Rightarrow c_1 \leq \frac{1}{19}$$

$$n=8$$
 $\frac{1}{2}-\frac{3}{8}=\frac{4}{8}-\frac{3}{8}=\frac{1}{8}$ $C_1=\frac{1}{14}$ $C_2=\frac{1}{2}$

P.I.
$$\frac{1-2}{1-2} < \frac{1}{2}$$
 counts to

$$\begin{cases}
f(n) = \frac{1}{2} > \frac{1}{2} \\
\frac{1}{2} - \frac{1}{2} < \frac{1}{2}
\end{cases}$$

$$0 < \frac{3}{4} \quad n > 0$$

Sur. $\lim_{n \to \infty} \frac{1-3}{2} = \lim_{n \to \infty} \frac{1-\ln 3}{2} = \frac{1}{2} - 0 = \frac{1}{2}$

$$f(n) = O(g(n)) \iff O \leq f(n) \leq c \cdot g(n) \quad \forall n > n_0 \leq \frac{1}{2}$$

$$f(n) = \int_{-\infty}^{\infty} (g(n)) \iff O \leq f(n) \leq c \cdot g(n) \quad \forall n > n_0 \leq \frac{1}{2}$$

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```
E(n)= 6n-2
                         E(n)
Verenios que Ecn) no es o(n)
         6n-2=0(n) ( ) 4C>0 3 no >0 +
                             0 ≤ 6n-2 < CM Vnzno
                                       31 C=5
                                 6n-2<5n
                                 n-2<0
                                  n < 2 lo. coal no es
                                        cierto Vn> 1670
Veamos abor Sr 6n-Z=O(n)
              J C>0 , no 70 > In 700
         6n-25cn
            -7 < n si No=(=) se crepk!
          E(n) = O(n)
 veames a hora si 6n-2= Sun)
               3c>0, no70 9 Un3/10
           0 < Cn < 6n-2
              0 < n-2 s: n72 esto es crevto.
               sea entonces no=2
                    : 6n-2=S(h)
                                    Tarea: P.d. que
                                        E(n) + w(n)
                               Taren: P.J. TCM = O(nlogn)
                                           T(n) = S2 (n logn)
   n2=0(n3
                    Es justa ssi es "O" pero no es "o"
                    n³ es cota superror de n² pero no os susta
```

