Math 135 - Big St + O 2/22/2010

Midterm:

Average: 58.6 (~78%)
Max: 75, Min: (in 305)

- New HW will be posted tonight

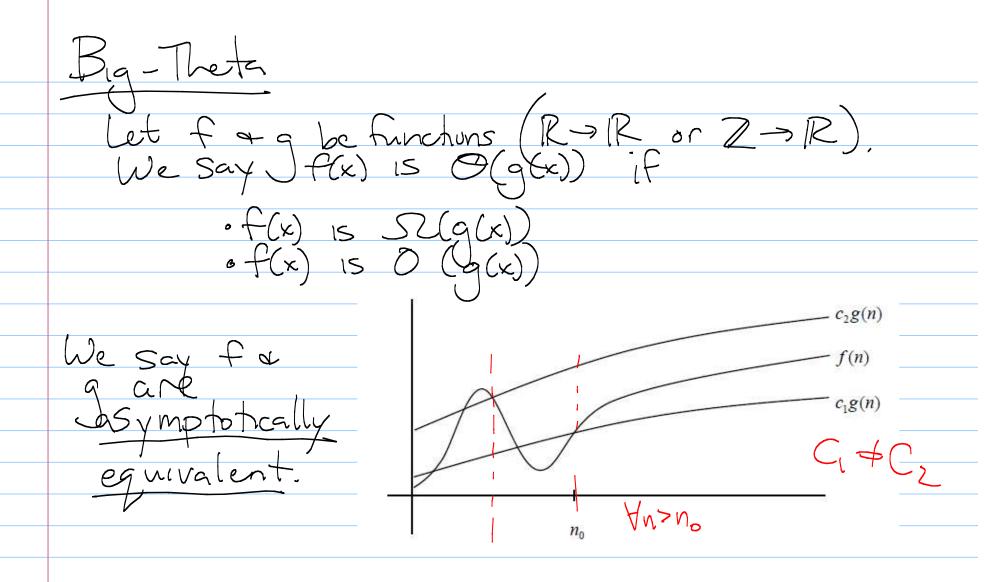
Big-Onega

Dh: let f + g be functions from  $\mathbb{R} \to \mathbb{R}$  (or  $\mathbb{Z} \to \mathbb{R}$ )

We say f(x) is SL(g(x)) if f positive constancts  $G(x) \to G(x)$  when  $X \to K$ .

(Read - f 15 big-Omega of g).

a bready know  $\lesssim i = O(n^2)$  $\frac{1}{2}$  =  $SZ(n^2)$ . (=), + C= 24



 $= \sum_{i=1}^{\infty} i = O(n^2).$ 

Why?

he showed SZ(n²) and O(n²)

