X Questions

How to compute derivative?

. Definition:

$$f'(n) = \lim_{h \to 0} \frac{f(n+h) - f(n)}{h}$$

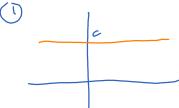
· Geometrio representation:

 $\zeta'(x) = \text{slope of tangent line to graph of } f$ at x.

· Algrabiaic empression / differentiation laws:

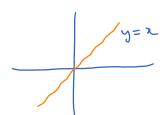
building complicated functions from basic blocks .. (like multiplying

numbers, starting with the times table)



$$f(x) = c$$
 for all x

$$f'(n) = 0$$
 for all n



$$f(n) = x$$
 for all n

$$\int_{0}^{\infty} (x) = \int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty} dx dx$$

From these two blocks, we can find derivativo of many other functions.