- · Draw the calculations from @ and @ on the gratch of B
- · Write in words what L(x) is saying

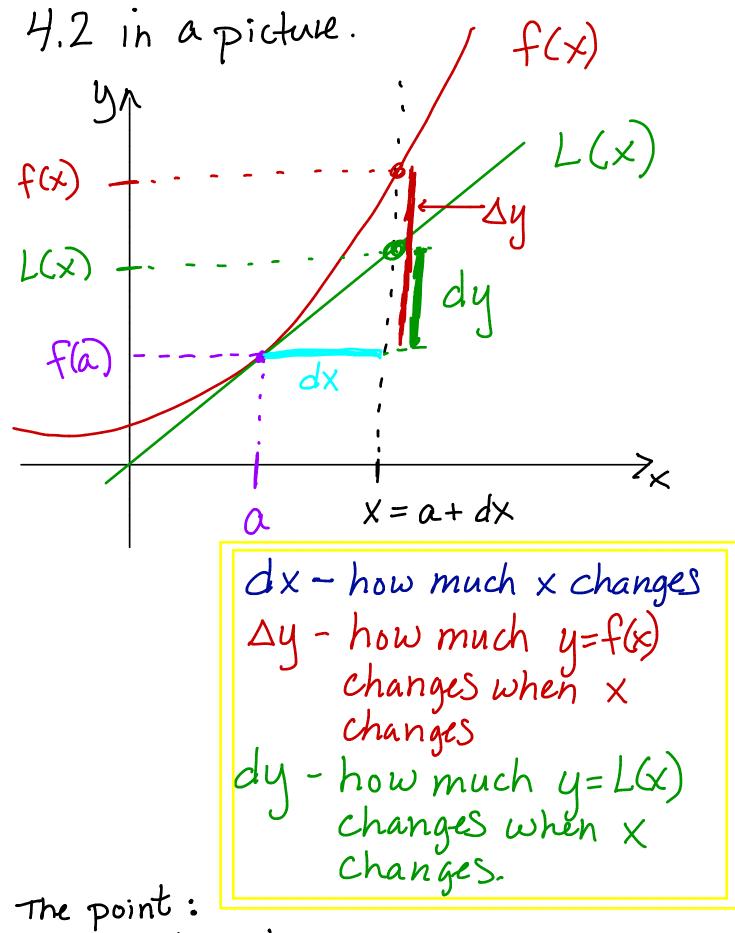
What does the differential do?

A way to
estimate how for a 1-unit
much y will change in x
then

multiplying by how much x-actually changed.

Do you see the differential hidden inside L(x)?

That is:  $f(x) \approx L(x) = f(a) + dy$ 



For x close to a,  $f(x) \approx L(x)$  and  $\Delta y \approx dy$