## Calculus Break

a function *f*(*x*) takes *x* as input and produces a unique value *y* for each value of *x* 

the *derivative* of *f*(*x*) is a new function that you put *x* into and it gives you the rate of change of *y* as *x* increases (i.e. as you move from left to right in a graph)

we typically write this as f'(x)



