

# partial derivatives

A partial derivative is the derivative of a multivariable function with respect to one variable while treating all other variables as constants.

# derivatives recap

Before: assume  $f(x)$  with derivative  $\frac{df}{dx}$ . What does this mean?

$$\frac{df}{dx} = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$