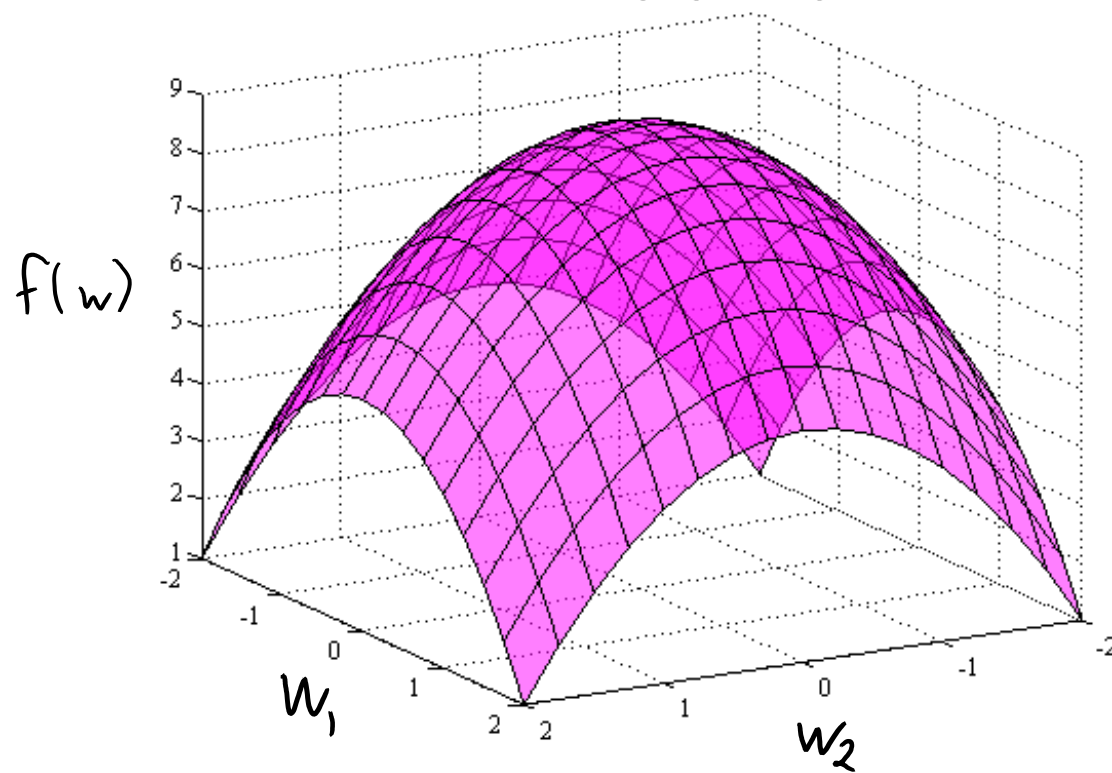# Partial Derivatives

# Partial Derivatives



The tangent line in the direction of $w_2$

$f(w)$

$w_1$

$w_2$

"Partial" derivative of 'f' with respect to $w_2$ is the derivative with respect to $w$ when all other variables are held <u>fixed</u>.

Denoted by $\frac{\partial}{\partial w_2}$ for variable $w_2$