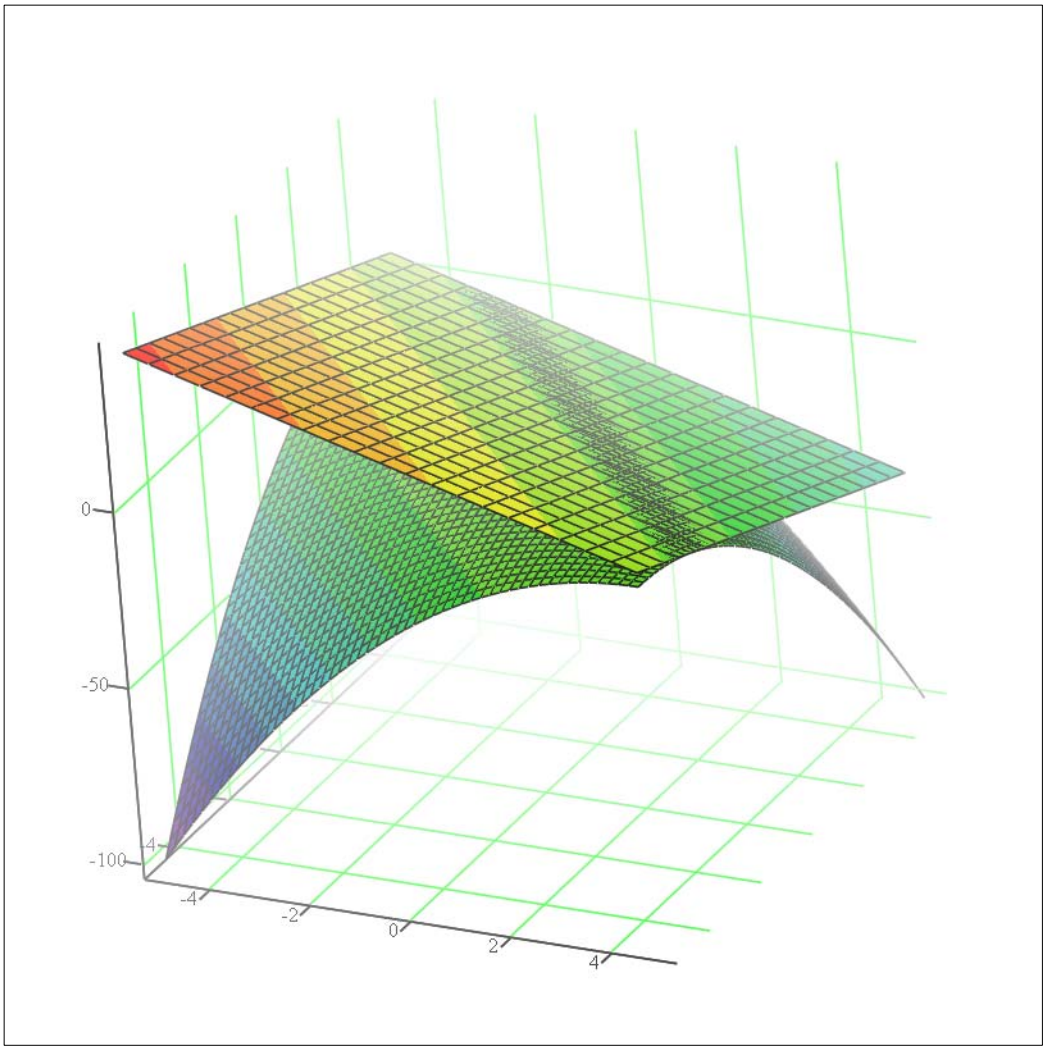
$$u(x,y) := -\left(x^2 + 2x\cdot y + y^2\right)$$

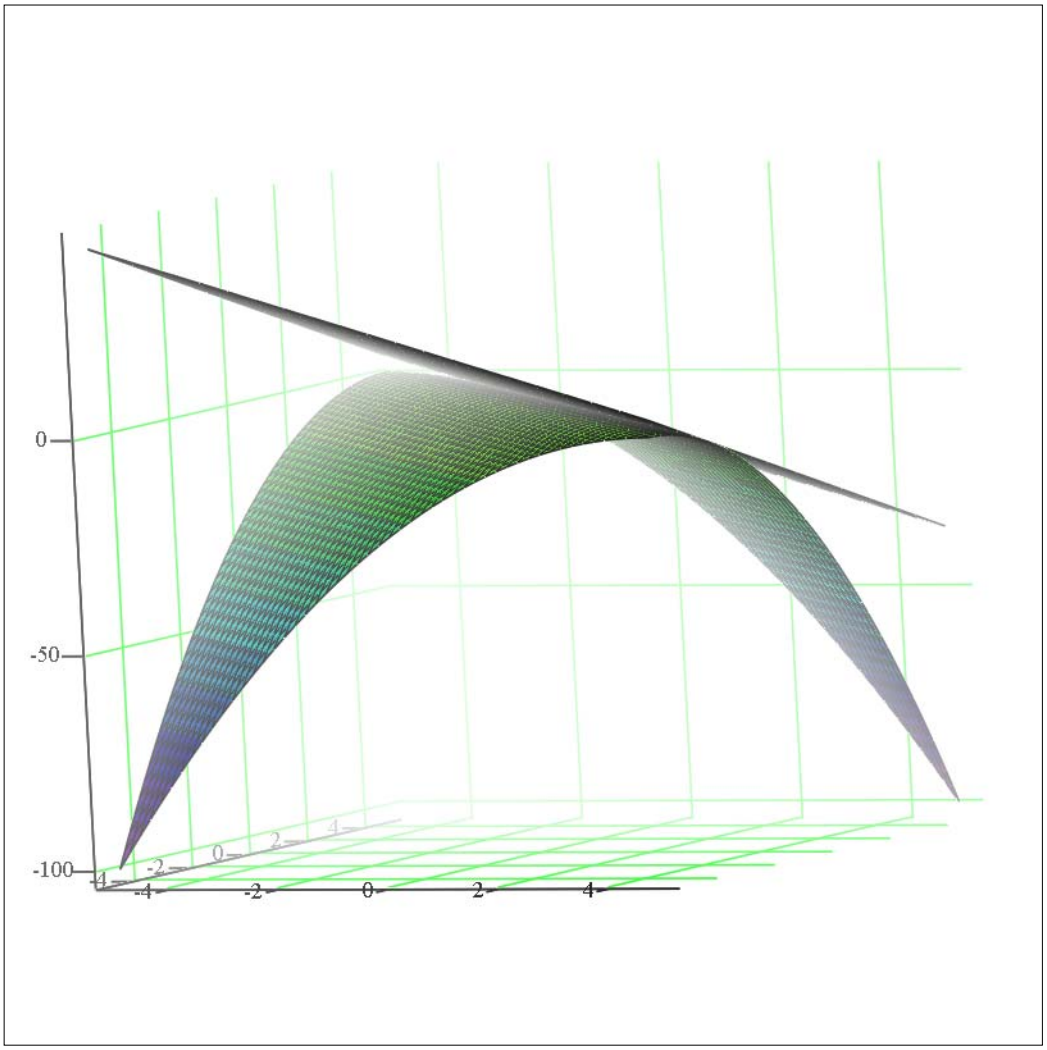
$x0 := 1$ $y0 := 1$ $u0 := u(x0,y0)$

$$ux(x,y) := \frac{d}{dx}u(x,y) \qquad ux0 := ux(x0,y0) \qquad uy(x,y) := \frac{d}{dy}u(x,y) \qquad uy0 := uy(x0,y0)$$

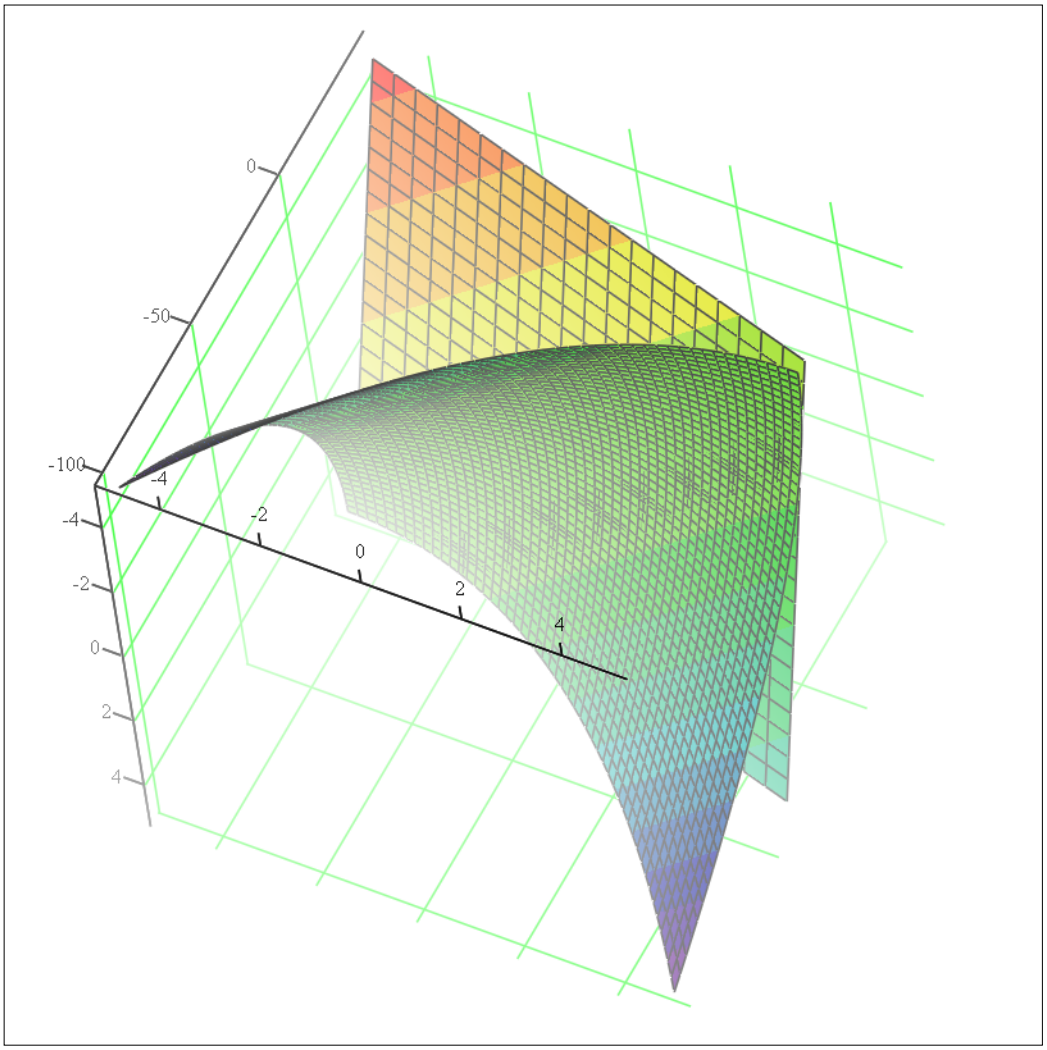
$$v(x,y) := u0 + ux0\cdot(x - x0) + uy0\cdot(y - y0)$$



u, v



u , v



u , v