

$$u(x, y) := \sin(1.57x) + \sin(1.57y)$$

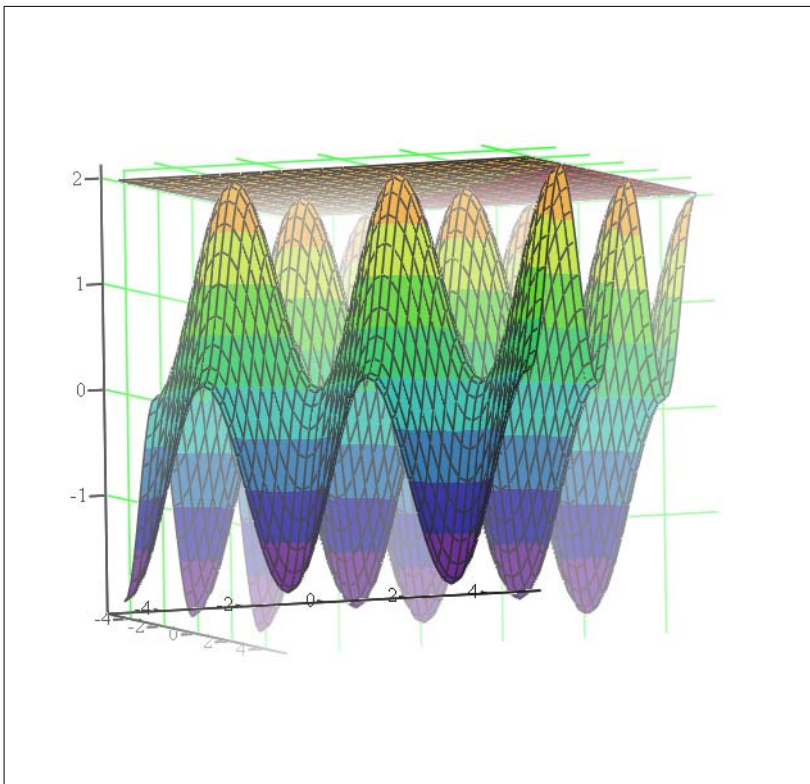
$$x_0 := 1 \quad y_0 := 1 \quad u_0 := u(x_0, y_0)$$

$$u_x(x, y) := \frac{d}{dx}u(x, y) \quad u_{x0} := u_x(x_0, y_0)$$

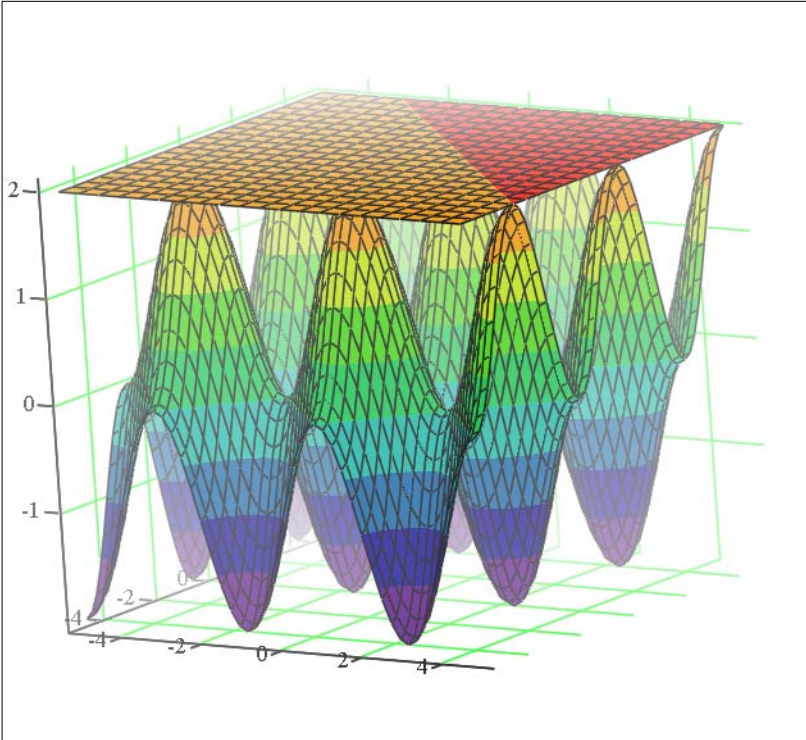
$$u_y(x, y) := \frac{d}{dy}u(x, y)$$

$$v(x, y) := u_0 + u_{x0} \cdot (x - x_0) + u_{y0} \cdot (y - y_0)$$

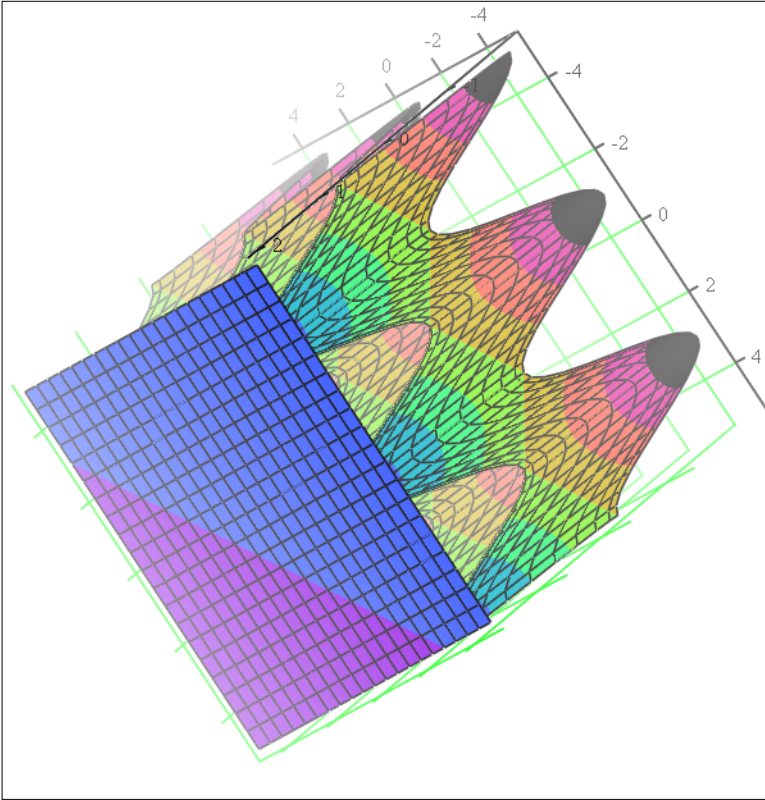
$$u_{y0} := u_y(x_0, y_0)$$



u, v



u, v



u, v