



Figure 1: A 3D surface plot of a function $f(x, y)$ over the domain $x \in [-10, 10]$ and $y \in [-10, 10]$. The surface is a smooth, elongated, and slightly curved shape, resembling a saddle or a shallow valley. The x-axis ranges from -10 to 10, the y-axis from -10 to 10, and the z-axis (vertical) from 0 to 10. The surface is colored with a gradient from blue at the base to yellow at the peaks.