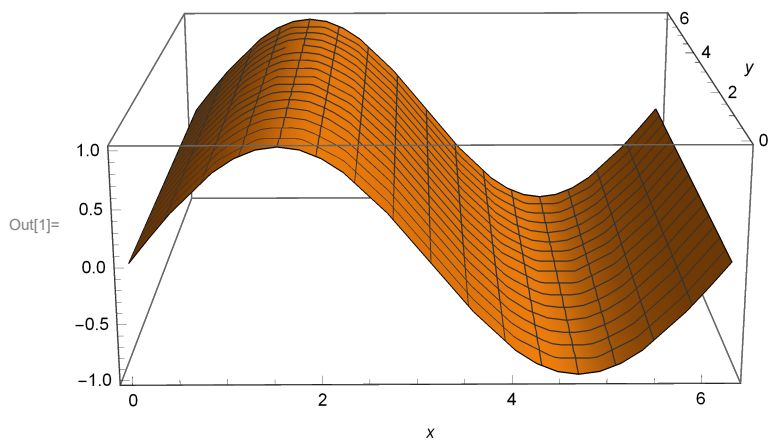In[1]:= **f[x_, y_] := Sin[x];   (* $\mathbb{R}^2 \to \mathbb{R}$ *)**
Plot3D[f[x, y], {x, 0, 2 Pi}, {y, 0 , 2 Pi}, AxesLabel → Automatic]

Out[1]=

In[2]:= **f[x_, y_] := Exp[x];   (* $\mathbb{R}^2 \to \mathbb{R}$ *)**
Plot3D[f[x, y], {x, 0, 2 Pi}, {y, 0 , 2 Pi}, AxesLabel → Automatic]

Out[2]=