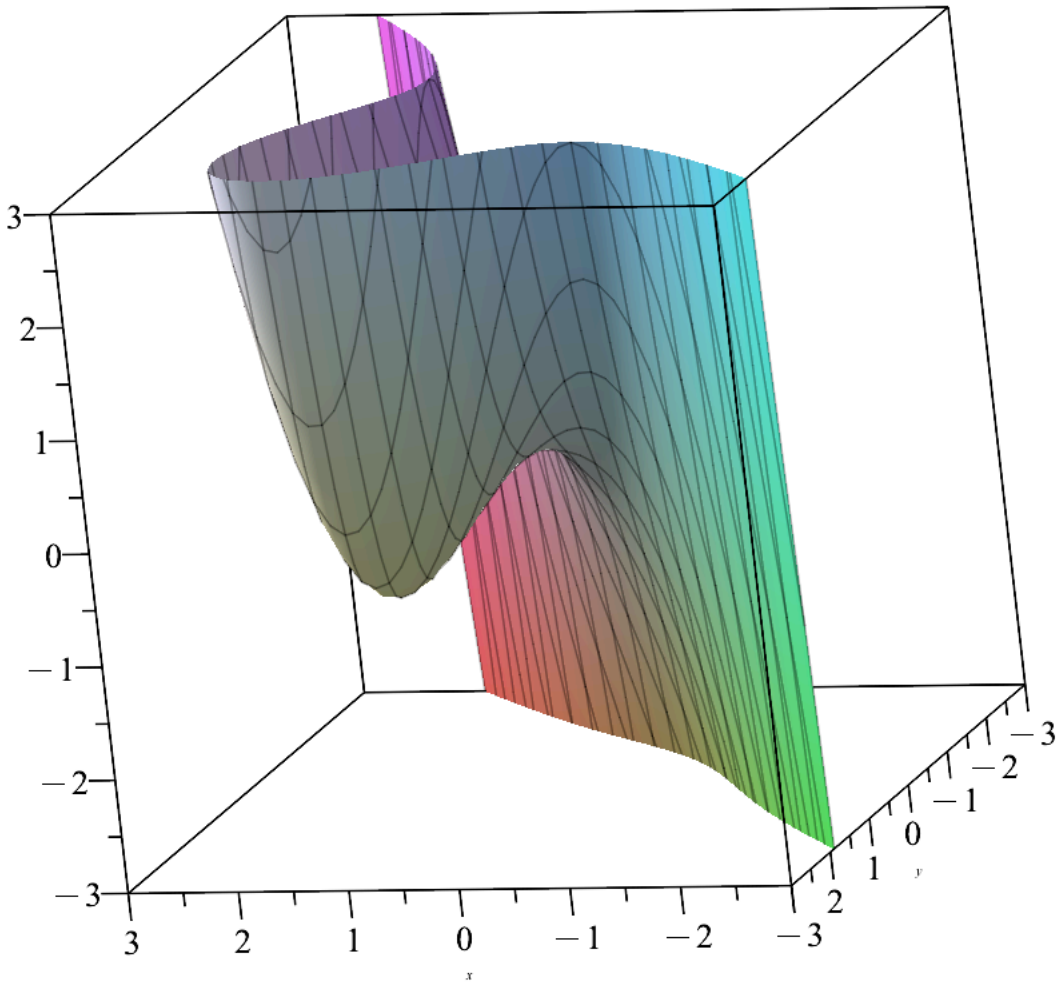
$with(LinearAlgebra)\ with(VectorCalculus)\ with(Student[Calculus1])with(plots)$:

$$f := x^3 + y^3 - 3\,x\cdot y$$

$$f := x^3 + y^3 - 3\,x\,y \quad \textbf{(1)}$$

$$a := plot3d(f, x = -3..3, y = -3..3, view = -3..3)$$



(0,0) is a saddle point and (1,1) is a local minimum.