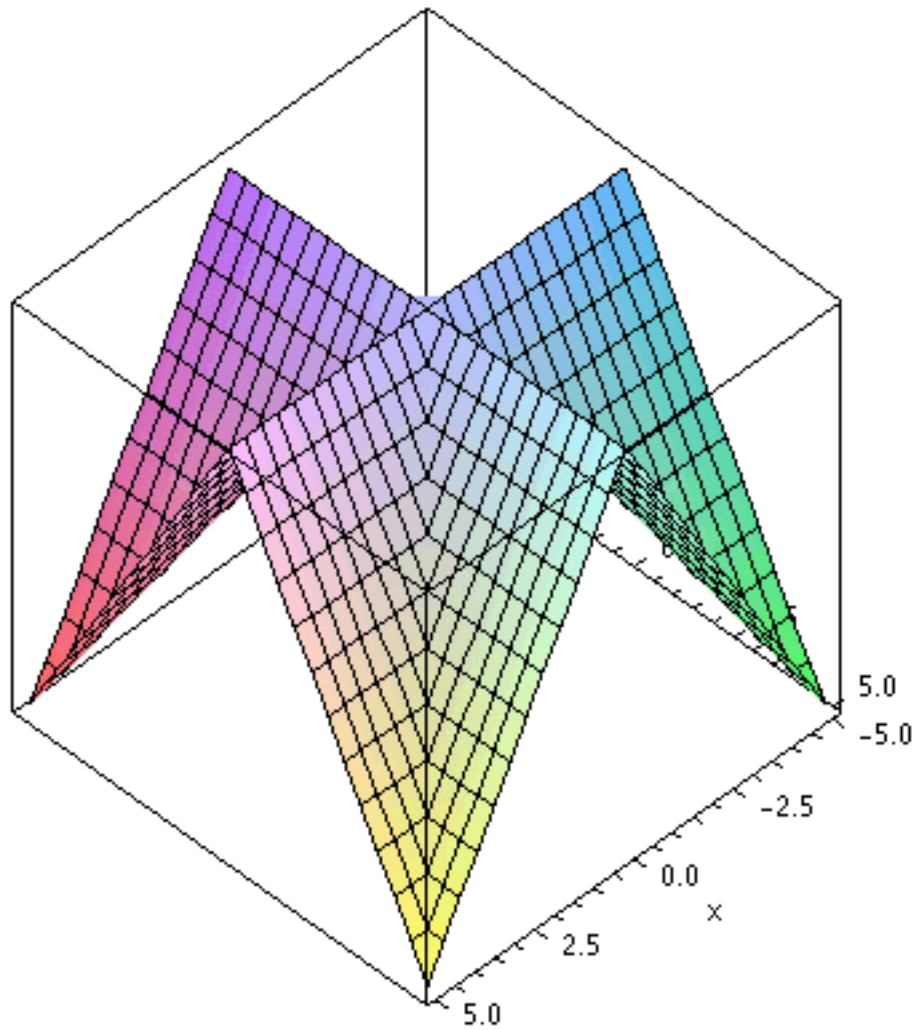


EXAMPLE:



Graph of the function: $f: \mathbf{R}^2 \rightarrow \mathbf{R}$ defined by $f(x,y) = ||x| - |y|| - |x| - |y|$

This example shows that partial derivatives can exist, but we might not get a good approximation using the equation of the tangent plane.