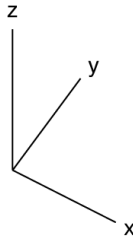


7.2: PARTIAL DERIVATIVES

(Mathematica was used to produce these computer graphics.)

Note: The coordinate axes are oriented in an unusual way:



The large black dot indicates the point (1, 2, 3).

Figure #1: Graph of $f(x,y) = -5x^2 + y^3$

Figure #2: The tangent plane to the graph of f at (1, 2, 3)

Figure #3: Combining #1 and #2

Figure #1

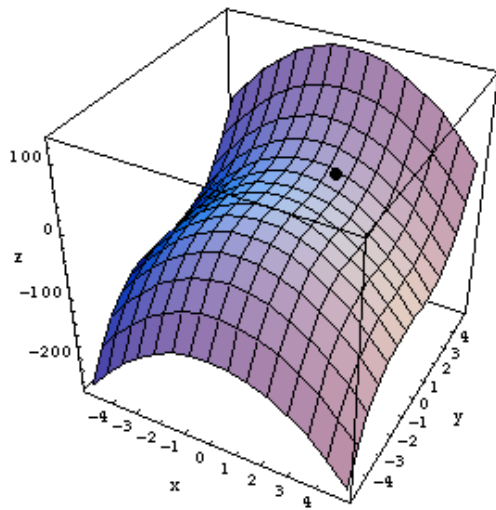


Figure #2

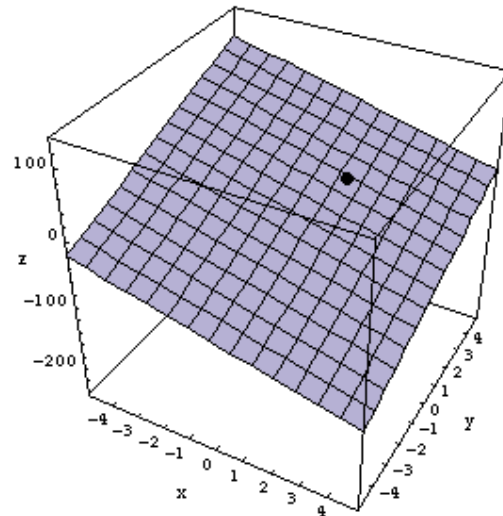


Figure #3

