

9.6 Functions and Surfaces

Functions of 2 variables

Graph of $f(x, y)$

Example 1

Sketch the graph of $f(x, y) = 2 - x - y$

Example 2

Sketch the graph of $f(x, y) = y^2$

Example 3

Sketch the graph of $f(x, y) = 9x^2 + y^2$

Example 4

Sketch the graph of $f(x, y) = y^2 - x^2$.

HW # 5, 7, 9, 11, 13, 19