

Math 241 Class Exercise: Multivariable Functions and
Graphing
Dr. Fred Park, Whittier College

1. Sketch the graph of the function $f(x, y) = 6 - 3x - 2y$
2. Find the domain and range and sketch the graph of $h(x, y) = 4x^2 + y^2$
3. Sketch the level curves for $f(x, y) = 6 - 3x - 2y$
4. Sketch the level curves for $g(x, y) = \sqrt{9 - x^2 - y^2}$ and plot the surface