

Math 9 Fall 19 Homework 6 (Due on Oct 30 before class)

- (1) (3pts) Let $f(x, y) = 2x^2y + 4y - 8x$. Find all points on the graph of $f(x, y)$ such that the tangent plane to the point is horizontal (parallel to xy -plane).
- (2) (3pts) Use a linear approximation of an appropriate function to estimate $(2.001)^5(1.001)^2$.
- (3) (3pts) Linear Algebra 5.2.15