

Homework Assignment for Week 09

1. Section 13.6: Problem 15 (Read Example 5 for the meaning of direction of A), 21, 23, 25, 27, 37, 39, 47, 49, 51, 53, 54, 57, 58.
2. (s13.5 extra3) Find the Taylor expansion of $f(x, y, z)$ around (x_0, y_0, z_0) up to quadratic terms of x , y and z . Give an expression of the remainder term, $\frac{1}{3!}(\cdots)$.