

## 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,  $\frac{1}{3!}(\dots)$ .