

5) Partial Differentiation / Multivariate Functions

- So far we discussed functions of one variable: $f = f(x)$
- Functional dependence often more complicated in physics etc.
- Consider functions of two or more variables

e.g. $z = f(x, y) = x^2 + y^2 + 3xy$

- Rate of change depends on direction in xy -plane
- Need to generalise derivative

