

SECTION B: Single-variable Optimization

This topic should include an introduction to optimization, tests for local and global extrema, the 2nd derivative test, and inflection points. This section should illustrate these concepts with a plethora of economic applications (e.g. simple profit maximization).

SECTION C: Functions and derivatives of many variables

Most of the material covered in Econ 3070 requires a good understanding of multivariate functions and partial derivatives.

1. $f(x, y)$ and $g(x, y)$