Lab 5: Applications of the Gradient

Lab5.ma is a *Mathematica* notebook that shows how the gradient of a function relates to its differential operator and its tangent plane. It also shows how the gradient is used in the Chain Rule.

Like all *Mathematica* notebooks, this one is used by opening its cells and executing its *Mathematica* commands. To open a cell, double-click on its cell bracket. To execute a *Mathematica* command, click on its cell bracket to select it, and then press the Enter key (not the Return key).

Lab5.wn explains how to work through **Lab5.ma** on the NeXT.

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Category:

Mathematics

Usage:

This software is used by students enrolled in Multivariate Calculus at the University of Richmond.

Version:

This software uses Mach 2.0 and Mathematica 2.0

References:

This software refers to the two books:

Calculus and Analytic Geometry, Fourth Edition
by Sherman K. Stein (McGraw-Hill, 1987).

A Guidebook to Calculus with Mathematica
by Philip Crooke and John Ratcliffe (Wadsworth, 1991).