

# Lab 7: Integration

**Lab7.ma** is a *Mathematica* notebook that uses the **Integrate** command to evaluate multiple integrals. It also uses the **SphericalPlot3D** command to display the graphs of functions defined by spherical coordinates and shows how to evaluate their integrals.

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).

**Lab7.wn** explains how to work through **Lab7.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).