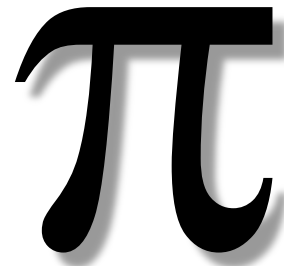


*Learning  
Calculus  
With  
Geometry  
Expressions™*

*by L. Van Warren*



*Introduction*

# *Learning Calculus with Geometry Expressions™*

*Written by L. Van Warren*

*Edited by Hannah Todd and Heather Duggan*

## Organization and Examples

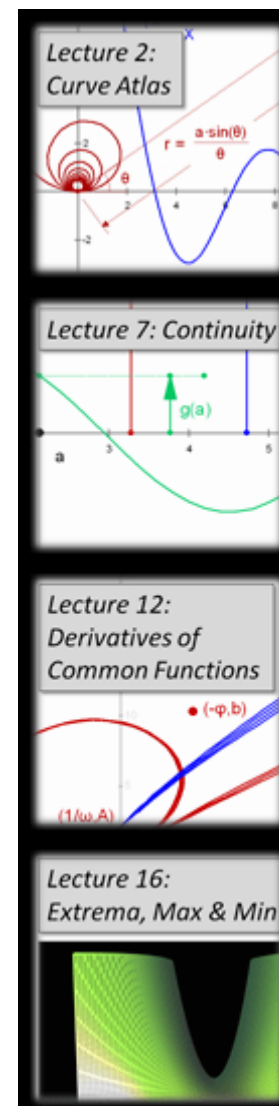
*Learning Calculus* consists of twenty-six lectures grouped in six chapters. Each chapter contains four or five lectures in pdf format.

Each lecture refers to Geometry Expressions example files suffixed with a `.gx` extension. These are read-only, but you may edit them if you wish by using the **File/Save As** command and renaming them.

The lectures also use the free computer algebra system, [wxMaxima™](#). These examples are suffixed with a `.wxm` filename extension.

The text also refers to a few Excel spreadsheet files, supplied in the new and old versions, `.xls` and `.xlsx`.

In one lecture on reaction rates, `.c3xml` chemistry files are included, these can be read using CambridgeSoft chemistry software, but this is not necessary for understanding the mathematics.



## Fonts

To view PDF's and spreadsheets you need the [Mathematica](#) fonts.

### Windows 7

- Open the TrueType folder
- Select all the .ttf files
- Right click and choose Install

### Windows Vista

- Open the **Control Panel** → **Appearance and Personalization** → **Fonts**
- Select **File** → **Install New Font...**
- Browse to the **TrueType** folder where you downloaded the *Mathematica* fonts
- Click the [Select All] button followed by the [Install] button

### Windows XP

- Open **Control Panel** → **Fonts**
- Select **File** → **Install New Font...**
- Browse to the **TrueType** folder where you downloaded the *Mathematica* fonts
- Click the [Select All] button followed by the [OK] button to install the fonts

### Mac OS X

- Run **Applications/Font Books**
- Select **File** → **Add Fonts...**
- Select **TrueType/MathematicaFonts.dfont**

