Homework 5: A Latex Exercise

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June 18, 2007

Abstract

In this paper I will demonstrate my mastery of Latex. It is not too hard, but yet not too easy.

1 My Background

In this section of my homework paper, I will make a table with some information about me.

Name	Hometown	Major	Year
Your name	Your Hometown	?	?

2 Some Math

In this section will show an *inline* equation like this one $A = \pi r^2$, the area of a circle.

Then I show a `displaystyle` equation.

$$\int_0^\infty \frac{1}{1+x^2} dx = \frac{\pi}{2}$$

I will now display a matrix:

$$M = \begin{bmatrix} a & b & 3y \\ -b & a & -c \\ -3y & c & a \end{bmatrix}$$

And finally an multiline equation

$$\begin{aligned}\int_0^{\pi/2} \cos(x) &= \sin(x)|_0^{\pi} \\ &= \sin(\pi/2) - \sin(0) \\ &= 1 - 0 = 1\end{aligned}$$

3 A Figure

Adding figures to documents is essential for presenting scientific results.

I will include a figure in my document (you will need to make a figure with gnuplot of anything you like, to include here.) It's ok if your figure end up somewhere else in your document, as long as it gets included.

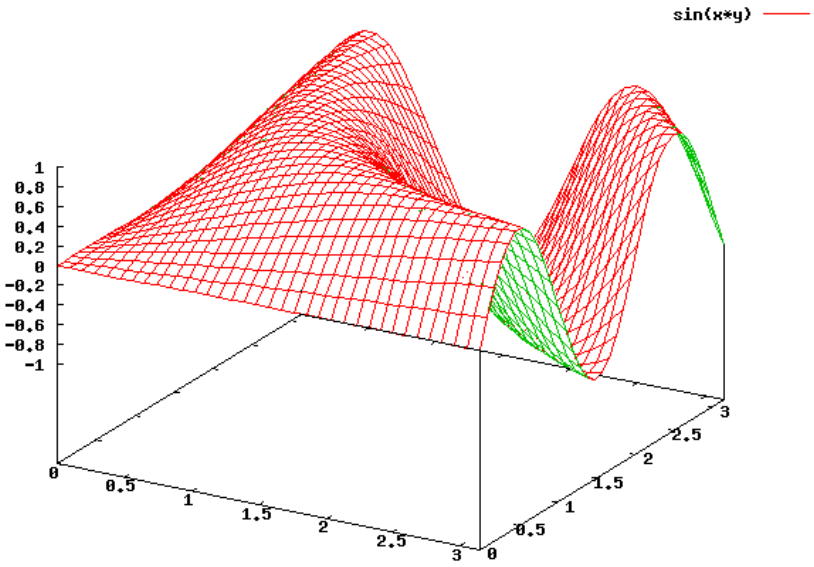

Figure 1: This is my figure: a plot of $\sin(xy)$.

4 Conclusions

As you can see, I know Latex pretty darn well!