## Math 235: Calculus Lab

Prof. Doug Hundley

Olin 234

Week 3

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#### This week:

- More about LaTeX.
- A few more notes about Maple.
- Homework this week: A couple of Maple problems- Write up solutions in LaTeX.

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A note about quotation marks:

```
I said, "Let there be light"...
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The result is: I said, "Let there be light"... A note about quotation marks:

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''Two single apostrophes from left side of keyboard, two right single quotes''

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## Some Notes About Writing

Example 1: Inline or Display Math mode? "If *d* is Bob's distance above the ground in feet, then  $d = 100 - 16t^2$ , where *t* is the number of seconds after Bob's Flugelputz-Levitator is activated. Solving for *t* in the equation  $100 - 16t^2 = 0$ , we find that t = 2.5. Bob hits the ground after 2.5 seconds."

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## **Multiple Equations**

$$3^{2x} - 2^{x} = -1$$
$$(3^{x})^{2} - 23^{x}) + 1 = 0$$
$$(3^{x} - 1)^{2} = 0$$

were typeset using the following code. Remember amsmath

```
In the header:
\usepackage{graphicx,fullpage, amsmath}
```

```
In the text:
\begin{align*}
3^{2x}-2^x&=-1\\
(3^x)^2-23^x)+1&=0\\
(3^x-1)^2&=0
\end{align*}
```

# **General Comments**

- Use a passive voice in writing math.
- Never start a sentence with variable name.
- Do not say "See figure below". In LaTeX, write See Figure \ref{LabelName}.

This week, we'll look at some plotting options. For the remaining time today, you may work on this week's lab.