

## Assignment #6

Due: Tuesday, January 18, 2011

Just one assignment today.

Reproduce the document contained on pages 2–3 of this file. I want your name where [Your name here] is, but everything else should be identical. You should use the techniques discussed today in class in order to reproduce this document. (So any number that can be produced by a cross-reference or counter should be produced that way.)

Make a `.pdf` file and send *both* the `.tex` and `.pdf` files to me through the Drop Box.

The margins for this document were set using the `geometry` package, but I didn't specify the margins. I just told it to give the text area a height of 8.5 inches and a width of 6 inches. It figured out the rest! Also, the spacing for this document is set at 1.2. What `pagestyle` do I have? Make sure to look at this page and the next!

## 1 The first and only section

Watch! Theorems are numbered by section and corollaries are numbered consecutively with theorems. You'll want to `label` each of these for cross-reference later.

**Theorem 1.1.** *Here is a very important theorem.*

**Corollary 1.2** (First Corollary). *This corollary has its own special name.*

You might notice that the next theorem has a much higher number. If you think hard, you'll see how that came to be.

**Theorem 1.6.** *This is our second theorem.*

As a change of pace, I thought you might like to see an instance of `itemize` and `enumerate` in action. They're crazy!

♣ crazy like a fox

♣ crazy like a turtle

♡ I'm not sure that turtles are crazy.

♣ the symbols here are generated (in math mode) by `clubsuit` and `heartsuit`

♡ I want you to make the changes *globally*, not case by case

Here was the way the American League East finished up last baseball season.

#1 Tampa Bay

#2 New York

#3 Boston

#4 Toronto

#5 Baltimore

The team listed in item 5 is my favorite, so it wasn't a good baseball year for me. Make sure that the cross-reference in this paragraph, as well as the label changes in the previous enumerated list are done with the commands learned today.

You should have noticed on page 1 that the theorem numbers had a gap in them. We had Corollary 1.2 and then Theorem 1.6. That would never happen in a real paper. Neither would having your first equation and second equation separated by so many numbers.

$$A = l \cdot w \tag{1}$$

Here's the second equation:

$$A = \frac{1}{2}bh. \tag{10}$$

After this line, I will skip .3-inches.

Here is a table demonstrating the different types of text we have seen.

Command	Appearance
<code>textbf</code>	<b>This is bold text.</b>
<code>textit</code>	<i>This is italicized text.</i>
<code>texttt</code>	<b>This is typewriter-type text.</b>
<code>underline</code>	<u>This text is underlined.</u>
<code>textsc</code>	THIS TEXT IS IN SMALL CAPS.
<code>textsf</code>	This is sans-serif text.

The last thing I'd like to do here is use an `align` environment, but you'll notice that the tags aren't the same. That's intentional!

$$a = b \tag{\star}$$

$$c = d \tag{11}$$

$$e = f$$

Do you see the difference between  $(\star)$  and  $(11)$ ? This is much different than formula  $(1)$  as well. Make sure that you're generating all of these numbers with the proper commands, not just "by hand." Finally, take note of the page number below here. Strange ...