

The Coolest Math Paper Ever

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### **Abstract**

Write a paragraph or two discussing the topic of your paper. You typically give a brief summary/outline of your paper. Write in the third person. Avoid the use of equations or mathematical symbols in your abstract, if possible.

## 1 Introduction

Here's how to cite a reference: A discussion of the Ratio Test can be found in [1]. Here's how to cite some specific items in a paper: Cite a specific page number [2, p. 445] or range of pages [1, pp. 742-744].

## 2 The Deep Result

Theorems, corollaries, etc. should be in the `\begin{theorem} ... \end{theorem}` environments to give them the proper formatting. Notice the italicized text and bold labeling. Theorems should not appear spontaneously without some discussion.

**Theorem 1.** *Let  $a, b$ , and  $c$  be integers. If  $a$  is divisible by  $b$  and  $b$  is divisible by  $c$ , then  $a$  is divisible by  $c$ .*

*Proof.* Assume that  $a$  is divisible by  $b$  and  $b$  is divisible by  $c$ . Then there are integers  $m$  and  $n$  such that  $a = bm$  and  $b = cn$ . Therefore,

$$a = (cn)m = c \cdot (nm).$$

Since  $a$  is the product of  $c$  and another integer  $nm$ , we see that  $a$  is divisible by  $c$ . □

## 3 Words of Wisdom

You can also use the automatic labeling and numbering to refer to results and sections. For instance: In Section 2 we proved Theorem 1.  $\LaTeX$  will re-number the theorems and references for you as you change your document.

## References

- [1] Stewart, J. *Calculus: Early Trancendentals 5<sup>th</sup> edition*. Belmont, CA: Brooks/Cole, 2003.
- [2] Wiles, A. *Modular elliptic curves and Fermat's last theorem*. Ann. of Math. (2) 141 (1995), no. 3, 443–551.
- [3] O'Connor, J.J. and Robertson, E.F. *A History of Pi*. St. Andrews, UK: 2001. Accessed 5 January 2003, from [http://www-gap.dcs.st-and.ac.uk/history/HistTopics/Pi\\_through\\_the\\_ages.html](http://www-gap.dcs.st-and.ac.uk/history/HistTopics/Pi_through_the_ages.html).
- [4] Author, S. *Title of some journal article*. J. Applied B.S. (2) 2006, 55–78.