

My First L^AT_EX Document

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1 Introduction

1.1 About Me

I grew up in a military family, living in Germany until I was twelve years old. Growing up in a foreign country was an amazing experience, one that taught me a great deal about cultural relativism. Being part of a military family taught me a great deal about community, diversity, and tolerance, and I consider myself a well-rounded person as a result. I've lived in several states including South Carolina, Hawaii, Virginia, and Maryland. I earned my Bachelor's Degree in *Mathematics* from George Mason University and my Master's Degree in *Mathematics Education* from Towson University. I am currently working on a second Master's Degree in *Educational Studies* from Johns Hopkins University. I am definitely a lifelong learner (LLL). I am entering my 13th year of teaching, a profession I have found personally rewarding and one that brings me great joy. I thrive in an environment where I am constantly challenged and allowed to be creative.

1.2 Interests & Hobbies

- **The Arts** Although I am highly left-brain dominant, I do have a passion for the arts. My favorite artists are Henri Matisse and Marc Chagall. One of the most enjoyable courses I took in college was an art class in which we spent the semester making art books. We not only created the insides of the books, but the bindings as well. We even learned how to make our own paper.
- **Web Design** I enjoy making web pages, and I especially enjoy working in HTML. It all seems very logical and orderly, yet there are endless possibilities for creative output. If you haven't already done so, please visit my web page: <http://www.mrskrummel.com>.
- **Sock Monkeys** I don't know why I love them so much; I just do! I have even tried my hand at making a few. I don't sew very well, but I love to crochet.

- **Movies & Television** I have far too many favorites to name them all, so I will just list a few:

- Musicals & Dance-icals
 - * Glee
 - * Billy Eliot
 - * My Fair Lady
- Science Fiction & Fantasy
 - * Star Trek TOS. Yes, I am a Trekkie! Kirk and Spock are my heroes.
 - * The Big Bang Theory
 - * A.I. Artificial Intelligence
 - * Quest for Fire

- **Fantasy Novels**

- The Clan of the Cave Bear *by Jean M. Auel*
- The Vampire Chronicles *by Anne Rice*
- The Harry Potter series *by J.K. Rowling*

1.3 Favorite Quotations

1. *Think! Think and wonder. Wonder and think. How much water can 55 elephants drink?* - Dr. Seuss
2. *In the Book of Life, the answers aren't in the back.* - Charlie Brown
3. *What lies behind us and what lies before us are tiny matters compared to what lies within us.* - Ralph Waldo Emerson

2 Mathematics

2.1 Mathematics and Me

I have always enjoyed doing mathematics. When I was younger, I thought of mathematics as a set of rules and procedures to be followed. As I dove deeper into my study of mathematics, however, I realized that it is so much more than that. Mathematics is full of mysteries to be solved. What is a mystery? I think of a mystery as an intriguing question with an unknown answer. Mathematicians pose questions about relationships, then set out to try to answer those questions. In school, we sometimes get so bogged down with the rules and procedures that we lose sight of the mystery. We must remember to “Think! Think and wonder. Wonder and think,” (see quote above), which leads us to ask intriguing questions: “How much water can 55 elephants drink?”

2.2 Mathematical Notation

I will practice mathematical typesetting using the four-digit number 1972.

1. Superscripts, subscripts, and Greek letters

(a) 19^{72}

(b) $1^{9^{72}}$

(c) 19_{72}

(d) $1_{9_{72}}$

- (e) 1972π
- (f) $\log_{19} 72$
- (g) $\ln 1972$

2. Roots, fractions, and displaystyle

- (a) $\sqrt{1972}$
- (b) $\sqrt[19]{72}$
- (c) normal: $\frac{19}{72}$ displaystyle: $\frac{19}{72}$
- (d) normal: $\frac{1}{9+\frac{7}{2}}$ displaystyle: $\frac{1}{9+\frac{7}{2}}$
- (e) normal: $\sqrt{\frac{19}{72}}$ displaystyle: $\sqrt{\frac{19}{72}}$

3. Delimiters

- (a) display math mode:

$$\left(1 + \frac{9}{72}\right)$$

- (b) display math mode:

$$\left|\frac{1}{9} - \frac{7}{2}\right|$$

4. Tables and equation arrays

(a) $\frac{x}{f(x)} \left\| \begin{array}{|c|c|c|c|} \hline 1 & 2 & 3 & 4 \\ \hline 1 & 9 & 7 & 2 \\ \hline \end{array} \right.$

- (b)

$$1 + 9 - 7 * 2 = x \tag{1}$$

$$1 + 9 - 14 = x \tag{2}$$

$$10 - 14 = x \tag{3}$$

$$x = -4 \tag{4}$$

****THE END****