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Abstract. Abstract goes here.

Contents

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1.   INTRODUCTION

s:intro

The introduction goes here.

1.1.   First subsection

Now do some math. First, a numbered equation:

$$\left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 = 1. \tag{1.1}$$

e:1

Now, equation (1.1) is the equation for an ellipse. A circle is described if $a = b$, and a hyperbola is described if (1.1) is replaced by

$$\left(\frac{x}{a}\right)^2 - \left(\frac{y}{b}\right)^2 = \pm 1.$$

Now state a theorem:

thm:1   **Theorem 1.1** (Cool Result)**.** *Math is fun.*

2.   A NEW SECTION

s:2

Much of this motivational discussion . . . .