# SpelateX Example

#### Walter Daems and Paul Levrie

2011/04/12

## 1 Introduction

This file is just a simple showcase of the features of  $S_p$ eLAT<sub>E</sub>X. Below, you'll find examples of:

- a simple equation
- a more complex equation

## 2 A simple equation

Consider the following simple definition of a polynomial function and check its spoken version by clicking on it.

$$f(x) = x^5 - x^4 + 7x^3 + 3x^2 - 8x + 23$$
 (1)

 $\triangleright$ 

 $\triangleright$ 

This seems a simple equation, however, it is not so straightforward for an automated reader, to read it correctly.

## 3 A more complex equation

For a lightray that hits the parabola at the point  $P(t, 9 - \frac{t^2}{4})$ , the reflected ray has slope  $\tan 2\alpha$ . Since the slope of the tangent to the parabola at P is equal to  $\tan \alpha = -\frac{t}{2}$ , the equation of the reflected ray is given by

$$y-9+\frac{t^2}{4}=-\frac{4t}{4-t^2}\cdot(x-t)$$

### 4 Een andere taal

 $\mathrm{Spe}\mathbb{E}\mathrm{T}_{\mathrm{E}}\mathrm{X}$  is ook volledig babel-actief, wat wil zeggen dat de voorleesstem de geselecteerde taal zal volgen.

$$y - 9 + \frac{t^2}{4} = -(x - t) \cdot \frac{4t}{4 - t^2}$$

### 5 And some extras

5.1 Citations

Two excellent repositories are CPAN [2] and CTAN [1].

#### 5.2 References to labels

Section 2 contains an illustration of a simple equation. For a more complex equation, we refer the user to section 3.

### References

- [1] The Comprehensive T<sub>E</sub>X Archive Network. http://www.ctan.org. online, accessed in August 2021.
- [2] The Comprehensive Perl Archive Network. http://www.cpan.org. online, accessed in August 2021.

99