The LaTeX Template for Beginners

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Abstract

Hello world! This is my first LATEX document.

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Keywords: Learning; September

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| \mathbf{R} | efere | ences | | |

1 Mathematical Notations

1.1 superscripts

$$2x^{3} \\ 3x^{88} \\ x^{4y^{9}+10}$$

1.2 Subscripts

$$x_1$$
 y_{12}
 $a_0, a_1, a_2, \dots, a_{100}$

1.3 Greek letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$A = \pi r^2$$

1.4 Trig functions

$$y = \sin x$$

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha}$$

$$x = \csc \theta$$

$$y = \sin^{-1} x$$

$$y = \arcsin x$$

1.5 Log functions

$$y = \log x$$
$$y = \log_5 x$$
$$y = \ln x$$

1.6 Roots

$$\sqrt{2}$$
 $\sqrt[3]{x}$

A rectangle has side lengths of (x+1) and (x+3). A hard return is going to start a new paragraph.

A rectangle has side lengths of (x + 1) and (x + 3). $\setminus \setminus$ is a soft return and therefore the line is not indented.

The equation

$$A(x) = x^2 + 4x + 3$$

gives the area of the rectangle.

{} makes sure to keep your equation on a line.(Trevisanato & Kim, 2000)

$$\alpha^2 + \beta^2 = \gamma^2 \tag{1}$$

Famous Gaussian quadrature:

$$S = 1 + 2 + 3 + \dots + n$$

$$S = n + (n - 1) + (n - 2) + \dots + 1$$

$$2S = (1 + n) + (2 + (n - 1)) + (3 + (n - 2)) + \dots + (n + 1)$$

$$2S = n(n + 1)$$

$$S = \frac{n(n + 1)}{2}$$
(2)

Formulas for various situations:

$$F(x) = \begin{cases} 0 & \text{, if } x < -1\\ x+1 & \text{, if } x > 3\\ 1 & \text{, otherwise.} \end{cases}$$
 (3)

$$a^2 + b^2 = c^2$$

2 Insertion of pictures

Try to insert vector graphics(McKay & Blumberg, 2002) so that the image will not change in clarity when it is enlarged or reduced.

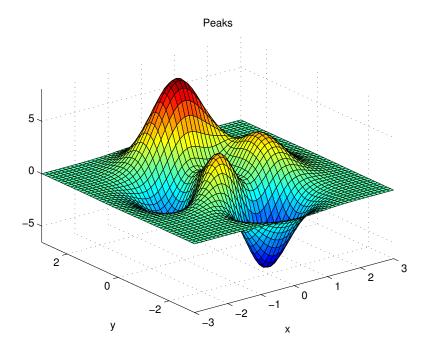


Figure 1: idk what

Reference test Equation 1

3 Sheet

Table 1: My first table

| Variable Name | Meanings |
|----------------|---|
| \overline{N} | Nodes, eg. Ng denotes the set of Goal Nodes |
| A | Adjacency matrix |
| G | Relationship Network Model(Yang & Wang, 1993) |
| x | The degree of realization of SDGs, as a 1*17 matrix |
| Δx | Perturbations arising, for 1*17 matrix |
| c | Anti-interference coefficient, related |

References

McKay, D. L., & Blumberg, J. B. (2002). The role of tea in human health: an update. *Journal of the American College of Nutrition*, 21(1), 1–13.

Trevisanato, S. I., & Kim, Y. I. (2000). Tea and health. Nutrition reviews, 58(1), 1–10.

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