ISGS LaTeX Beginner's Workshop
LaTeX2006 - Exercise Sheet # 1

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1 Booktabs with Multicolumn & Multirow

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2 Math

2.1 Alignment

$$a_1 x + a_2 x^2 = 0 \tag{1}$$
$$b_1 x + b_2 x^2 + b_3 x^3 = 0 \tag{2}$$

2.2 Dot-less vector

$$\vec{k} = \vec{\imath} \times \vec{\jmath}$$

or

$$\vec{k} = \imath \times \jmath$$

2.3 Golden Ration

Two quantities a and b are said to be in the *golden ration* φ if

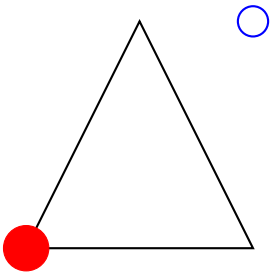
$$\frac{a}{b} = \frac{a+b}{a} = \varphi \tag{3}$$

By the way: $\varphi = 1 + \frac{1}{\varphi}$

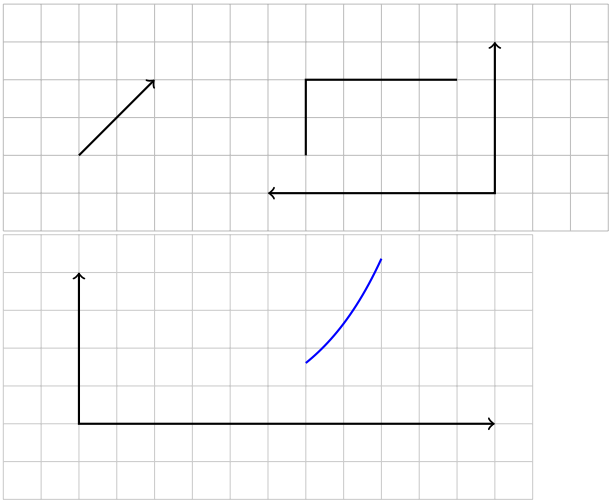
3 1+1=2

$$1 + 2 = 2 \tag{4}$$
$$1 = \ln e \tag{5}$$
$$1 = \sin^2 \alpha + \cos^2 \alpha \tag{6}$$
$$2 = \sum_{n=0}^{\infty} \frac{1}{2^n} \tag{7}$$
$$\ln e + \left(\sin^2 \alpha + \cos^2 \alpha\right) = \sum_{n=0}^{\infty} \frac{1}{2^n} \tag{8}$$
$$1 = \cosh \varphi \cdot \sqrt{1 - \tanh^2 \varphi} \tag{9}$$

4 Theorem & Definitions



hello world



Definition 1 *This is a user defined definition*

Lemma 1 *This is lemma*