

2.1 Aligned Math

$$\mathbf{X} = \begin{pmatrix} x_{11} & x_{12} & \cdots \\ x_{21} & x_{22} & \cdots \\ \vdots & \vdots & \ddots \end{pmatrix}$$

$$y = \begin{cases} a & \text{if } d > c \\ b + x & \text{in the morning} \\ l & \text{all day long} \end{cases}$$

$$\left(\frac{1}{3} \middle| \frac{2}{4} \right)$$

$$f(x) = \cos x \tag{1}$$

$$f'(x) = -\sin x \tag{2}$$

$$\int_0^x f(y) dy = \sin x \tag{3}$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \cdots \tag{4}$$

2.2 Phantoms

$$\Gamma_{ij}^k \quad \text{as opposed to} \quad \Gamma_{ij}^k$$

Γ_{ij}^{k} $\quad\quad\quad \text{\texttt{\texttt{as opposed to}}} \quad\quad\quad \Gamma_{ij}^k$

3 Theorems

$\text{\texttt{\newtheorem{law}{Law}}}$
 $\text{\texttt{\newtheorem{jury}[law]{Jury}}}$

Law 1 *Don't hide in the witness box*

Jury 2 (The Twelve) *It could be you! So beware and see law [1](#)*

Law 3 *No, No, No*

4 Tables

Here I inserted a floating table with `tabularx` and `table` environments. See Table [1](#).

You can set your columns `raggedleft` by defining a new column specifier.