WPG

Practical LATEX Tutorial # 23

Objectives

- Aligned Formulas
- Cases Environment
- Example

Cases Environment

$$|x| = \begin{cases} x, & x \ge 0 \\ -x, & x < 0 \end{cases}$$

$$f(x) = \begin{cases} 0, & x \le -1 \\ \sqrt{1 - x^2}, & -1 < x < 1 \end{cases}$$

$$|x| = \begin{cases} x, & x \ge 0 \\ -x, & x < 0 \end{cases}$$

$$f(x) = \begin{cases} 0, & x \le -1 \\ \sqrt{1 - x^2}, & -1 < x < 1 \end{cases}$$

$$\lim_{x \to 2^-} f(x) = \begin{cases} 0, & x \le -1 \\ \sqrt{1 - x^2}, & -1 < x < 1 \end{cases}$$

$$\lim_{x \to 2^-} f(x) = 6, \text{ where } f(x) = \begin{cases} x, & x > 2 \\ 3x, & x \le 2 \end{cases}$$

$$\lim_{x \to 2^-} f(x) = 6, \text{ where } f(x) = \begin{cases} x, & x > 2 \\ 3x, & x \le 2 \end{cases}$$

$$\lim_{x \to 2^-} f(x) = \frac{x_0 + x_t}{2}, \qquad \text{if } x_u < y_t$$

$$\frac{1}{C} \left[\frac{x_0^3 - y_0^3}{6} + \frac{y_t^2 + x_0^2}{2} x_t + (x_0 - y_t) \frac{x_t^2}{2} + \frac{y_t^2 - x_t^2}{2} \right]$$

$$+ \frac{y_u^2 - x_u^2}{x} (x_u - x_t) - (y_u - x_u) \frac{x_u^2 - x_t^2}{2}$$

$$\frac{1}{x_u - x_t} \left[\frac{(y_u + y_t)^2}{6} - \frac{y_u + y_t}{2} x_t + \frac{x_t^2}{2} \right], \qquad \text{otherwise}$$