Vježbe 1

Za početak napišite nekakav jednostavan tekst, naprimjer kratku biografiju. Budući još nismo radili okruženja (environments), neka to bude običan tekst, bez quote, itemize, tabular, itd. (article.cls)

Nakon toga napravite sljedeće formule:

$$c = 1 + \sqrt{a^5 + b^2}\,, \qquad \sqrt[5]{x_1 + 2x_2 - 5x_3} \tag{1}$$

Oznake za skup su isključivo (npr.)

$$\{x : x > 0\} \quad \text{ili} \quad \{x \mid x > 0\} \quad \text{a } \textbf{nikako ne} \quad \{x, x > 0\} \quad \text{niti} \quad \{x; x > 0\} \tag{2}$$

$$x^{\frac{\pi}{\omega+\Theta}}\,, \qquad \lim_{x\to\infty} \frac{\operatorname{tg} x}{\alpha} = 7 \tag{3}$$

$$\int_0^{+\infty} 1 + \left(\frac{5}{\sqrt{7} - x^3 + x^2}\right)^{21} \quad \text{ili ljepše} \quad \int\limits_0^{+\infty} 1 + \left(\frac{5}{\sqrt{7} - x^3 + x^2}\right)^{21} \tag{4}$$

$$Y = \begin{vmatrix} 5 & 7 & 3 & 4 & 11 \\ 3 & 12 & 2 & 35 & 1 \\ 12 & 4 & 8 & 6 & 15 \\ 7 & 8 & 6 & 9 & 3 \end{vmatrix} \tag{5}$$

(eqnarray)
$$\begin{aligned} x^2 &= y + z \\ y^4 &= 2x + z^3 \\ z &= 3\sqrt{\sqrt{y^2 + 3y^5} + x} \end{aligned} \tag{6}$$

Ali bolje je ovako:

(align)
$$\begin{aligned} x^2 &= y + z \\ y^4 &= 2x + z^3 \\ z &= 3\sqrt{\sqrt{y^2 + 3y^5} + x} \end{aligned} \tag{7}$$

$$D^{-\frac{1}{2}} = \begin{pmatrix} \frac{1}{\sqrt{\sum x_1^2/(n-1)}} & 0 & 0 \\ 0 & \frac{1+2x_2^5-7x_2^{13}}{\sqrt{\sum x_2^2/(n-1)}} & 0 \\ 0 & 0 & \frac{1-3y^5-12y^7}{\sqrt{\sum y^2/(n-1)}} \end{pmatrix} \tag{8}$$

$$\pi(n) = \sum_{m=2}^{n} \left\lfloor \left(\sum_{k=1}^{m-1} \left\lfloor (m/k) \,/\, \lceil m/k \rceil \right\rfloor \right)^{-1} \right\rfloor \tag{9}$$

$$\prod_{j\geq 0} \left(\sum_{k\geq 0} a_{jk} z^k \right) = \sum_{k\geq 0} z^n \left(\sum_{\substack{k_0, k_1, \ldots \geq 0 \\ k_0 + k_1 + \cdots = n}} a_{0k_0} a_{1k_1} \ldots \right) \tag{10}$$

$$\Pi_R \begin{bmatrix} a_1, a_2, \ldots, a_M \\ b_1, b_2, \ldots, b_N \end{bmatrix} = \prod_{n=0}^{R} \frac{(1 - q^{a_1+n})(1 - q^{a_2+n}) \ldots (1 - q^{a_M+n})}{(1 - q^{b_1+n})(1 - q^{b_2+n}) \ldots (1 - q^{b_N+n})} \tag{11}$$

$$\underbrace{\{\overbrace{a, \ldots, a}^{k\ a\text{-ova}}, \overbrace{b, \ldots, b}^{l\ b\text{-ova}}\}}_{k+l \text{ elemenata}} \text{ i } \sqrt{x} + \sqrt{y} \quad \text{a ne} \quad \underbrace{\{\overbrace{a, \ldots, a}^{k\ a\text{-ova}}, \overbrace{b, \ldots, b}^{l\ b\text{-ova}}\}}_{k+l \text{ elemenata}} \text{ i } \sqrt{x} + \sqrt{y} \tag{12}$$