

1.

$$\sum_{\substack{i < n \\ i \text{ sudé}}} x_i^2$$

2.

$$I_4 = \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$$

3.

$$|x| = \begin{cases} x & x \geq 0 \\ -x & x \leq 0 \end{cases}$$

4.

$$a + b + c + d + e + f + b + c + d + e + f + b + c + d + e + f \\ + b + c + d + e + f + b + c + d + e + f + i + j + k + l + m + n$$

5.

$$a + b = c + d \\ x = w + y + z \\ m + n + o + p = q$$

6.

$$a_{11}x_1 + a_{12}x_2 + a_{13}x_3 = y_1, \\ a_{21}x_1 + a_{22}x_2 + a_{24}x_4 = y_2, \\ a_{31}x_1 + a_{33}x_3 + a_{34}x_4 = y_3.$$

7.

$$a + b + c + d = 0, \\ c + d + e = 5.$$

8.

$$x_1 + y_1 + \left( \sum_{i < 5} \binom{5}{i} + a^2 \right)^2$$
$$\left( \sum_{i < 5} \binom{5}{i} + \alpha^2 \right)^2$$

9.

$$\alpha = \alpha\alpha$$

$$\beta = \beta\beta\beta\beta$$

$$\gamma = \gamma$$

versus

$$\delta = \delta\delta$$

$$\eta = \eta\eta\eta\eta\eta$$

$$\varphi = \varphi$$

10.

$$a = b + c - d$$

$$+ e - f$$

$$= g + h$$

$$= i$$

(1)

$$\frac{1}{2 + \frac{1}{3 + \dots}}$$

(\*)

Řetězové zlomky viz (\*).