

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.

$$\begin{aligned} a + b + c + d + e + f + b + c + d + e + f + b + c + d + e + f \\ + b + c + d + e + f + b + c + d + e + f + i + j + k + l + m + n \end{aligned}$$

5.

$$\begin{aligned} a + b &= c + d \\ x &= w + y + z \\ m + n + o + p &= q \end{aligned}$$

6.

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

7.

$$\begin{aligned} a + b + c + d &= 0, \\ c + d + e &= 5. \end{aligned}$$

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.

$$\begin{array}{lll} \alpha = \alpha\alpha & & \\ \beta = \beta\beta\beta\beta\beta & \text{versus} & \delta = \delta\delta \\ \gamma = \gamma & & \eta = \eta\eta\eta\eta\eta \\ & & \varphi = \varphi \end{array}$$

10.

$$\begin{aligned} a &= b + c - d \\ &\quad + e - f \\ &= g + h \\ &= i \end{aligned} \tag{1}$$

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

Řetězové zlomky viz (\*).