



Př. 1: Řešte rovnici:

$$\binom{6}{5} \cdot \binom{y+1}{y-1} - \binom{6}{4} \cdot \binom{y+2}{y+1} = \binom{4}{2}$$

Řešení:

$$6 \cdot \frac{(y+1)y}{2} - 15 \cdot (y+2) = 6$$

$$6y^2 + 6y - 30y - 60 = 12$$

$$y^2 - 4y - 12 = 0$$

$$D = (-4)^2 - 4 \cdot 1 \cdot (-12) = 64$$

$$y_{1/2} = \frac{4 \pm 8}{2} =$$

$$y_1 = 6; \quad y_2 = -2 \notin \mathbb{N}$$

$$K = \{6\}$$