

MTH 155 Tyždeni 3
Príspevok 1 Skupina 2

① $1,2x(x+y) - 2,3y(x-y) + 1,8x(3-y) =$

$1,2x^2 + 1,2xy - 2,3xy + 2,3xy^2 + 1,8x \cdot 3 - 1,8xy =$

$= 1,2x^2 + 1,2xy - 2,3xy + 2,3xy^2 + 5,4x - 1,8xy =$

$= 1,2x^2 + 5,4x + 2,3xy^2 - 2,9xy = 1,2x^2 + 2,3xy^2 - 2,9xy +$

$+ 5,4x = 2,3xy^2 - 2,9xy + 1,2x^2 + 5,4x = x(2,3y^2 - 2,9y + 1,2x + 5,4)$

② $(a+2)(a-\frac{1}{2}) + (a+\frac{1}{2})(a-1) - (a+2)(a+2) =$

$= a^2 - \frac{1}{2}a + 2a - 1 + a^2 - a + \frac{1}{2}a - \frac{1}{2} - a^2 - 2a - 2a - 4 =$

$= a^2 - 3a - 5,5 \quad \left[\quad x_1 = \frac{3 + \sqrt{31}}{2} \quad x_2 = \frac{3 - \sqrt{31}}{2} \quad \right]$

③ $3x^2y^2 : 0,5x = \frac{3x^2y^2}{0,5x} = \frac{3xy^2}{0,5} = \underline{6xy^2}$

④ $(24a^2 + 18ab - 32ab^2) : 4a = \frac{24a^2 + 18ab - 32ab^2}{4a} =$

$= 6a + 4,5b - 8b^2 = \underline{\underline{\frac{9b}{2} - 8b^2 + 6a}}$