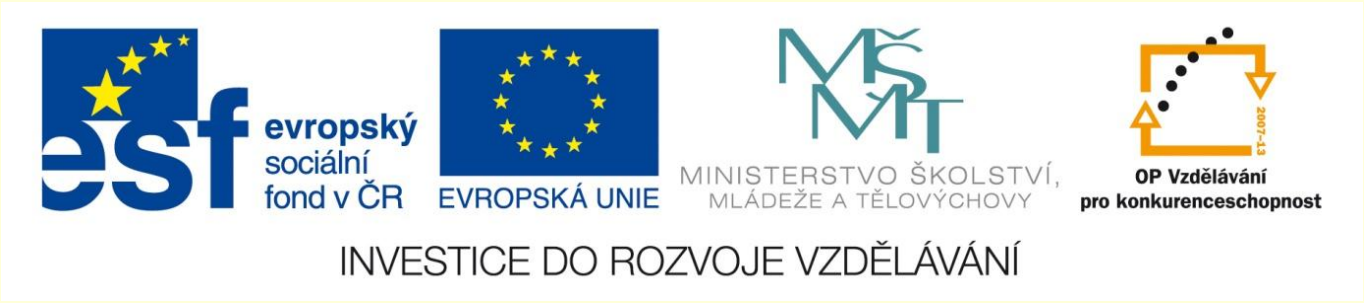

organizace

Název projektu:

Anotace

Sčítání lomených výrazů

Matematika 9

1) $x^2 - 9 =$

2) $2x^2 + 8 =$

3) $4x^4 - 12x^2a^2 + 9a^4 =$

4) $2x^2 - 2 =$

1) $x^2 - 9 =$ (x 3). (x+3)

2) $2x^2 + 8 =$ $2 \cdot \left(x^2 + 4\right)$

3) $4x^4 - 12x^2a^2 + 9a^4 =$ $\left(2x^2 - 3a^2\right) \cdot \left(2x^2 - 3a^2\right)$

4) $2x^2 - 2 =$ $2 \cdot \left(x^2 - 1\right) = 2 \cdot (x+1) \cdot (x-1)$

1) $4x^2y =$

$12\,xy^2 =$

2) $3y =$

$4y^2 =$

3) $5x + 5 =$

$6x + 6 =$

4) $3x^2 - 27 =$

$x^2 - 9 =$

$x^2 - 3x =$

1) $4x^2y =$

$12\,xy^2 =$

$n = 12x^2y^2$

2) $3y =$

$4y^2 =$

$n = 12y^2$

3) $5x + 5 = 5 \cdot (x+1)$

$6x + 6 = 6 \cdot (x+1)$

$n = 30 \cdot (x+1)$

4) $3x^2 - 27 = 3 \cdot (x^2 - 9) = 3 \cdot (x-3) \cdot (x+3)$

$x^2 - 9 = (x-3) \cdot (x+3)$

$x^2 - 3x = x \cdot (x-3)$

n = 3x.(x-3).(x+3)

1) $\frac{x+y}{x^2}+\frac{x-y}{xy}=$

2) $\frac{a-b}{a+b}+\frac{4ab}{a^2-b^2}=$

3) $\frac{-2x-2y}{x^2+2xy+y^2}+\frac{3}{x+y}=$

-

1) $\frac{x+y}{x^2}+\frac{x-y}{xy}=$ $\frac{yx+y^2+x^2-yx}{x^2y}=$ $\frac{x^2+y^2}{x^2y}$ $x\neq 0; y\neq 0$

2) $\frac{a-b}{a+b}+\frac{4ab}{a^2-b^2}=$ $\frac{a^2-2ab+b^2+4ab}{(a-b)\cdot(a+b)}=$ $\frac{a^2+2ab+b^2}{a^2-b^2}=$ $\frac{(a+b)\cdot(a+b)}{(a-b)\cdot(a+b)}=$

$=\frac{a+b}{a-b}$ $a\neq\pm b$

3) $\frac{-2x-2y}{x^2+2xy+y^2}+\frac{3}{x+y}=$ $\frac{-2x-2y+3x+3y}{(x+y)\cdot(x+y)}=$ $\frac{x+y}{(x+y)\cdot(x+y)}=$ $\frac{1}{x+y}$

$x\neq y$

konec