2. OPAKOVÁNÍ VÝRAZŮ

$(a+b)^2 = a^2 + 2ab + b^2$

$(a-b)^2 = a^2 - 2ab + b^2$

$(a+b)\cdot(a-b) = a^2 - b^2$

(11) 11.1. $(2a+3b)^2$

11.2 $(0,3c+10)^2$

11.3. $(4d+6e)^2$

(12) $3x(4-x)+3(x-2)^2$.

12.1. $3x\cdot(4-x)+3\cdot(x^2-4x+4)=$

$12x - 3x^2 + 3x^2 - 12x + 12 = 12$

12.2.

$(x-y)^2 - 2\cdot(x+y)$.

$x^2 - 4xy + 4y^2 - 2x - 2y$.

(13) 13.1. $1(x+1)^2 + 2(x+1)^2$.

$x^2 + 2x + 1 + 2(x^2 + 2x + 1) =$

$x^2 + 2x + 1 + 2x^2 + 4x + 2 =$

$3x^2 + 6x + 3 = 3\cdot(x^2 + 2x + 1) =$

$3(x+1)^2$

Zde BY ROVNOU.

11.2.

$2(x-1)^2 - (1-x)^2$.

$2(x^2-2x+1) - (1-2x+x^2)$

$2x^2 - 4x + 2 - 1 + 2x - x^2$.

$x^2 - 2x + 1 = (x-1)^2$

(14) 14.1. $9x^2 - 12xy + 4y^2$

14.2 $[x - 2(1-x)]^2 = [x - 2 + 2x]^2 = [3x-2]^2 =$

$9x^2 - 12x + 4$

(15) $(x+3)^2 - (x-3)^2$.

$x^2 + 6x + 9 - (x^2 - 6x + 9) =$

$x^2 + 6x + 9 - x^2 + 6x - 9 = 12x$

B