3. Algebraic expressions

Sunday 20 March 2022 13

Useful formulas

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

 $(a + b) \cdot (a - b) = a - b^2$
 $(a + b)(a + ab + b^2) = a - b^3$

Doplnění na čtverec dvojčlenu

$$ax^{2} + bx + C = a. \left(x^{2} + \frac{b}{ax}\right) + C$$

$$= a. \left(x^{2} + \frac{b}{2a}x + \frac{b^{2}}{4a^{2}} + \frac{b^{2}}{4a^{2}}\right) + C$$

$$= a. \left(x^{2} + \frac{b}{2a}x + \frac{b^{2}}{4a^{2}} + \frac{b^{2}}{4a^{2}}\right) + C - \frac{b^{2}}{4a}$$

$$= a. \left(x^{2} + \frac{b}{2a}x + \frac{b^{2}}{4a^{2}} + \frac{b^{2}}{4a^{2}}\right)$$

$$= a. \left(x + \frac{b}{2a}\right)^{2} + C - \frac{b}{4a}$$

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$$= a. \left(x$$