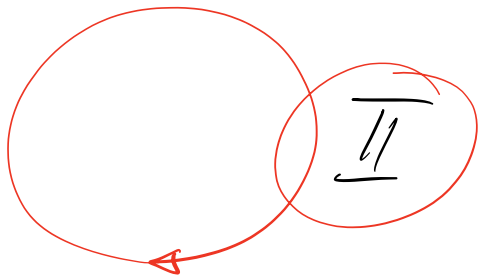
I Mise en évid.



II Formules

III Trinôme

2.2.3 i

$$12a^3 + \frac{9ab^2}{4} + \frac{3b^3}{16} + 9a^2b$$

I.? Nije u end.

$$3\left(4a^3 + \frac{3ab^2}{4} + \frac{b^3}{16} + 3a^2b\right)$$

$$A^3 + 3A^2B + 3AB^2 + B^3$$

$$3\left(4a^3 + \frac{3ab^2}{4} + 3a^2b + \frac{b^3}{16}\right)$$

$$\frac{3}{2}\left(8a^3 + \frac{3ab^2}{2} + 6a^2b + \frac{b^3}{8}\right)$$

$$\frac{3}{2}\left(8a^3 + 3\cdot 2a^2b + 3\cdot a\cdot\frac{b^2}{2} + \frac{b^3}{8}\right)$$

$$(2a)^3 + 3\cdot 4a^2\cdot\frac{b}{2} + 3\cdot 2a\cdot\frac{b^2}{4} + \left(\frac{b}{2}\right)^3$$

$$\frac{3}{2}\left(2a+\frac{b}{2}\right)^3$$

$$\frac{3}{2}\left(2\left(a+\frac{b}{4}\right)\right)^3$$

$$\frac{3}{2}\cdot 8\cdot\left(a+\frac{b}{4}\right)^3 = 12\left(a+\frac{b}{4}\right)^3$$

$$12a^3 + \frac{9b^2}{4} + \frac{3b^3}{16} + 9ab =$$

$$12\left(a^3 + \frac{9b^2}{48} + \frac{3b^3}{192} + \frac{9ab}{12}\right) =$$

$$12\left(a^3 + \frac{3}{4}\cdot a^2 b + \frac{3}{16} ab^2 + \frac{b^3}{64}\right) =$$

$A^3 + 3A^2B + 3AB^2 + B^3$

$$12\left(a^3 + 3\cdot a^2\cdot\frac{b}{4} + 3\cdot a\cdot\frac{b^2}{4^2} + \frac{b^3}{4^3}\right) =$$

$$12\left(a^3 + 3a^2\cdot\frac{b}{4} + 3\cdot a\cdot\left(\frac{b}{4}\right)^2 + \left(\frac{b}{4}\right)^3\right) = 12\left(a+\frac{b}{4}\right)^3$$

$A = a$ $\qquad$ $B = \frac{b}{4}$

$$2^2b^2 - m^2 = (2b)^2 - m^2 = (2b+m)(2b-m)$$

$$A^2 - B^2 = (A+B)(A-B)$$

$$A = 2b \quad B = m$$