# POTENCIJE

$$a^n \cdot a^m = a^{n+m}$$

$$a^n : a^m = a^{n-m}$$

$$\frac{a^n}{a^m} = a^n : a^m = a^{n-m}$$

$$(a\,b\,c)^n = a^n\,b^n\,c^n$$

$$\left(a^n\right)^m = a^{n \cdot m}$$

$$\left(\left(a^n\right)^m\right)^z = a^{n \cdot m \cdot z}$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n}$$

$$a^0 = 1$$

$$a^1 = a$$

$$a^{-1} = \frac{1}{a}$$

$$a^{-n} = \frac{1}{a^n}$$

# ALGEBARSKI IZRAZI

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

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

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

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

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

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

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

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

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

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

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2ac + 2bc$$

$$x^2 + px + q = \left\{\begin{matrix} m+n = p \\ m\cdot n = q \end{matrix}\right\} = (x+m)\cdot(x+n)$$

$$ax^2 + bx + c = \left\{\begin{matrix} m+n = b \\ m\cdot n = a\cdot c \end{matrix}\right\} = ax^2 + mx + nx + c = \ldots$$