Stepenovanje

Proizvod $\underbrace{a \cdot a \cdot \ldots \cdot a}_{n-puta} = a^n$ **naziva se** n**-tim stepenom broja.**

Ako je $a \in R$**,** $a \neq 0$ **i neka je** $n \in N$**, važe pravila:**

1) $a^0 = 1$

2) $a = a^1$

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

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

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

6) $(a \cdot b)^n = a^n \cdot b^n$

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

$(-a)^{paran} = a^{paran}$

$(-a)^{neparan} = -a^{neparan}$

Korenovanje

Kvadratni koren nenegativnog broja a u oznaci $\sqrt{a}$ jeste nenegativni realni broj čiji je kvadrat jednak broju a.

Najvažnija svojstva korenovanja su:

1) $(\sqrt{a})^2 = a \qquad a \geq 0$
2) $\sqrt{a^2} = |a|$
3) $\sqrt{a}\sqrt{b} = \sqrt{ab}$
4) $\dfrac{\sqrt{a}}{\sqrt{b}} = \sqrt{\dfrac{a}{b}}$

$11^2 = 121 \leftrightarrow \sqrt{121} = 11$	$16^2 = 256 \leftrightarrow \sqrt{256} = 16$	$21^2 = 441 \leftrightarrow \sqrt{441} = 21$	$26^2 = 676 \leftrightarrow \sqrt{676} = 26$
$12^2 = 144 \leftrightarrow \sqrt{144} = 12$	$17^2 = 289 \leftrightarrow \sqrt{289} = 17$	$22^2 = 484 \leftrightarrow \sqrt{484} = 22$	$27^2 = 729 \leftrightarrow \sqrt{729} = 27$
$13^2 = 169 \leftrightarrow \sqrt{169} = 13$	$18^2 = 324 \leftrightarrow \sqrt{324} = 18$	$23^2 = 529 \leftrightarrow \sqrt{529} = 23$	$28^2 = 784 \leftrightarrow \sqrt{784} = 28$
$14^2 = 196 \leftrightarrow \sqrt{196} = 14$	$19^2 = 361 \leftrightarrow \sqrt{361} = 19$	$24^2 = 576 \leftrightarrow \sqrt{576} = 24$	$29^2 = 841 \leftrightarrow \sqrt{841} = 29$
$15^2 = 225 \leftrightarrow \sqrt{225} = 15$	$20^2 = 400 \leftrightarrow \sqrt{400} = 20$	$25^2 = 625 \leftrightarrow \sqrt{625} = 25$	$30^2 = 900 \leftrightarrow \sqrt{900} = 30$