

Radicali

Definim: $\sqrt{a} = b, \quad b > 0 \Leftrightarrow a = b^2$.

1. $\sqrt{a^2} = |a|, \quad a \in R;$
2. $\sqrt{a \cdot b} = \sqrt{a} \cdot \sqrt{b}, \quad a, b \geq 0;$
3. $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}, \quad a \geq 0, b > 0;$
4. $a\sqrt{b} = \sqrt{a^2 b}, \quad a, b \geq 0;$
5. $\frac{b}{\sqrt{a}} = \frac{b\sqrt{a}}{a}, \quad a \neq 0;$
6. $\frac{c}{a \pm \sqrt{b}} = \frac{c(a \mp \sqrt{b})}{a^2 - b}, \quad b \neq a^2;$
7. $\frac{m}{\sqrt{a} \pm \sqrt{b}} = \frac{m(\sqrt{a} \mp \sqrt{b})}{a - b}, \quad a \neq b;$
8. $\max(a, b) = \begin{cases} a, & a \geq b \\ b, & a < b \end{cases}, \quad \min(a, b) = \begin{cases} a, & a \leq b \\ b, & a > b \end{cases};$
9. $\max(a, b) = \frac{a + b + |a - b|}{2}, \quad \min(a, b) = \frac{a + b - |a - b|}{2};$

Modulul unui număr real

$$|x| = \begin{cases} x, & \text{daca } x \in [0, \infty) \\ -x, & \text{daca } a \in (-\infty, 0] \end{cases}$$

1. $|x| \geq 0, \quad (\forall)x \in R;$
2. $|x| = 0$, dacă și numai dacă $x = 0$;
3. $|-x| = |x|, \quad (\forall)x \in R;$
4. $|x \cdot y| = |x| \cdot |y|, \quad (\forall)x, y \in R;$
5. $\left|\frac{x}{y}\right| = \frac{|x|}{|y|}, \quad (\forall)x \in R, y \in R^*;$
6. $|x + y| \leq |x| + |y|, \quad (\forall)x, y \in R;$
7. $|x| \leq a \Leftrightarrow x \in [-a, a], \text{ cu } a \geq 0;$
8. $|x| \geq a \Leftrightarrow x \in (-\infty, -a] \cup [a, +\infty), \text{ cu } a \geq 0.$

Media aritmetică a n numere reale $a_1, a_2, \dots, a_n$ este:

$$M_o = \frac{a_1 + a_2 + \dots + a_n}{n}.$$

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Ensheng Dong



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