

Új változó bevezetése

1. $8(x-1)^6 - 215(x-1)^3 = 27$ $x \in \mathfrak{R}$
2. $(x^2 + 6x)^2 = (x+3)^2 + 63$ $x \in \mathfrak{R}$
3. $(x^2 + 2x)^2 - 14x^2 = 15 + 28x$ $x \in \mathfrak{R}$
4. $\frac{21}{x^2 - 4x + 10} - x^2 + 4x - 6 = 0$ $x \in \mathfrak{R}$
5. $(x^2 + x + 3)(x^2 + x + 1) = 15$ $x \in \mathfrak{R}$
6. $(2x-1)(2x-3)(2x-5)(2x-7) = 945$ $x \in \mathfrak{R}$
7. $2x^2 + 3x + \sqrt{2x^2 + 3x + 9} = 33$ $x \in \mathfrak{R}$
8. $x^2 + x + 3\sqrt{x^2 + x - 2} = 12$ $x \in \mathfrak{R}$
9. $\sqrt{2x^2 - 8x + 25} - \sqrt{x^2 - 4x + 13} = 2$ $x \in \mathfrak{R}$
10. $\sqrt[3]{2x^2 - 9} + \sqrt[3]{100 - 2x^2} = 7$ $x \in \mathfrak{R}$
11. $\left. \begin{array}{l} x(x+1)(3x+5y) = 144 \\ x^2 + 4x + 5y = 24 \end{array} \right\}$ $x, y \in \mathfrak{R}$
12. $\left. \begin{array}{l} 2x + 5xy - y - 14 = 0 \\ 2x^2y - xy^2 + 3 = 0 \end{array} \right\}$ $x, y \in \mathfrak{R}$
13. $3\left(x^2 + \frac{1}{x^2}\right) = 7\left(x + \frac{1}{x}\right)$ $x \in \mathfrak{R}$
14. $6x^4 + 5x^3 - 13x^2 + 5x + 6 = 0$ $x \in \mathfrak{R}$
15. $30x^4 - 17x^3 - 228x^2 + 17x + 30 = 0$ $x \in \mathfrak{R}$
16. $\frac{4x}{4x^2 - 8x + 7} + \frac{3x}{4x^2 - 10x + 7} = 1$ $x \in \mathfrak{R}$
17. $\frac{4x}{x^2 + x + 3} + \frac{5x}{x^2 - 5x + 3} = -\frac{3}{2}$ $x \in \mathfrak{R}$