

02 - ZADACI ZA NJIH - JEDNADŽBE

A-grupa

Tekst svih zadataka je isti: "Riješi jednadžbu".

1. $\frac{3}{5x} + 3 = 6 \quad (\text{Rj: } \frac{1}{5})$

2. a) $x^2 - x - 6 = 0; \quad (\text{Rj: } -2, 3)$ b) $-x^2 + 2x - 1 = 0; \quad (\text{Rj: } 1)$

c) $x^2 + x + 1 = 0; \quad (\text{Rj: } \frac{-1 \pm \sqrt{3}i}{2})$ d) $2x^2 - 2 = 0. \quad (\text{Rj: } \pm 1)$

3. $2x^3 - 5x^2 + 4x - 10 = 0 \quad (\text{Rj: } -2, \frac{1}{2}, 4)$

4. $x^4 - 2x^2 - 15 = 0 \quad (\text{Rj: } \pm\sqrt{5}, \pm\sqrt{3}i)$

5. $x - (3x - (5 + x)) - 8 = 3(x + 2) - 1 \quad (\text{Rj: } -2)$

6. $\frac{1}{2x-6} - \frac{4}{x-3} - \frac{1}{2} = 0 \quad (\text{Rj: } -4)$

B-grupa (možda malo teža)

Tekst svih zadataka je isti: "Riješi jednadžbu".

1. $x + 12 = -\frac{1}{4}x - 48 \quad (\text{Rj: } -48)$

2. a) $x^2 + 3x + 2 = 0; \quad (\text{Rj: } -2, -1)$ b) $(x - 3)(x + 4) = 0; \quad (\text{Rj: } -4, 3)$

c) $2x^2 + 4x + 2 = 0; \quad (\text{Rj: } -1)$ d) $2x^2 + 2 = 0. \quad (\text{Rj: } \pm i)$

3. $2x^3 + 11x^2 + 8x - 21 = 0 \quad (\text{Rj: } -\frac{7}{2}, -3, 1)$

4. $x^4 + 3x^2 - 18 = 0. \quad (\text{Rj: } \pm\sqrt{3}, \pm\sqrt{6}i)$

5. $(4 - x)(3 + x) = 1 - (x - 3)^2 \quad (\text{Rj: } 4)$

6. $\frac{x-1}{x+2} = \frac{x+3}{x-4} \quad (\text{Rj: } -\frac{1}{5})$