

ALGEBARSKI IZRAZI I RJEŠAVANJE LINEARNIH JEDNADŽBI

zadatci za ponavljanje

1. Izračunaj i pojednostavi (uredi) algebarske izraze :

a) $-8a + 9 - 15a - 11 =$

b) $-5x(x - y) - 3y(-2x + 5y) =$

2. Izračunaj vrijednost algebarskog izraza $-4x - xy + 7$ ako je:

a) $x = -6, y = 2$

b) $x = 4, y = -3$

3. Riješi jednađbe :

a) $3x + 6 = -8 - 4x$

b) $-2(3y - 1) = 4(-2y + 7)$

4. Riješi jednađbe :

a) $\frac{3x}{10} - \frac{x}{2} + 3 = -\frac{x}{4}$

b) $\frac{5x-2}{3} - \frac{x-1}{6} = \frac{5}{2}$

5. Riješi jednađbe :

a) $|x| = 15$ **c)** $|2x| = 14$

b) $|2x - 3| = 1$ **d)** $|x - 11| = 20$

6. Izrazi nepoznanicu x iz jednađbe :

a) $-2(x - 3a) = 3(-3x + 2)$

c) $5(x - 3a) = 2(-2x + 7)$

b) $-4(2x - 5a) = 3(-2x + 1)$

d) $3(2x - 3a) = 4(-x - 1)$

7. Riješi jednađbe :

- a) $3x + 5 = 23$ c) $10y + 23 = 3$ e) $4z - 9 = -2$ g) $80 - 12t = 38$
 b) $8x - 12 = 28$ d) $11 - 5z = 26$ f) $12y + 15 = 19$ h) $16 = 7z + 30$

8. Riješi jednađbe :

- a) $7x + 3 = 5x + 12$ e) $0.9x + 5 = 1.2x - 3.4$
 b) $6z + 8 = 11z - 7$ f) $4.2t - 7 = 11 - 3.3t$
 c) $9y + 4 = 3y - 10$ g) $0.7y + 2.8 = 0.55y - 1.7$
 d) $100 - 7x = 13x$ h) $0.5 - 1.7z = 0.74 + 2.3z$

9. Riješi jednađbe :

- a) $3(x + 7) = 4(2x - 1)$ e) $3(6v + 4) = 9(2v - 3)$
 b) $4(5x - 3) + 6 = 10$ f) $8(3 + 2z) - 3z = 5z - 8$
 c) $8(y + 10) - 30 = 5y$ g) $5(y - 0.2) = 1.6(3y + 0.5)$
 d) $9(y - 5) = 4y - 10$ h) $4(9w - 11) - 12(3w - 4) = 4$

10. Riješi jednađbe :

- a) $\frac{2x}{3} + 2 = 10$ e) $\frac{z}{3} - \frac{z}{5} = 1$
 b) $\frac{3x}{5} - 5 = 7$ f) $\frac{u}{5} + 2 = \frac{u}{3} - 4$
 c) $\frac{x}{2} + \frac{x}{3} = 25$ g) $\frac{3z}{4} = \frac{2z}{3} - 5$
 d) $\frac{y}{3} + \frac{y}{4} + 15 = y$ h) $\frac{5y}{8} = \frac{2y}{5} + 3$

11. Riješi jednađbe :

- a) $\frac{3y + 5}{2} = \frac{2y}{3}$ e) $\frac{2z + 7}{5} = \frac{9 - 3z}{6}$
 b) $\frac{x + 5}{3} = \frac{3x}{4}$ f) $\frac{3y + 4}{4} = \frac{4y - 6}{5}$
 c) $\frac{2x - 5}{2} = \frac{4x - 9}{5}$ g) $\frac{4z + 1}{6} = \frac{z - 3}{2} + \frac{2}{3}$
 d) $\frac{4x + 30}{6} = \frac{9 - x}{4}$ h) $\frac{y + 2}{3} + \frac{y - 1}{15} = \frac{2y + 3}{5}$