

## 10. Nepilnie kvadrātvienādojumi

(atbildes pārbaudes darbam)

### 1. variants

Atrisini kvadrātvienādojumus!

1.  $y^2 = 49$ ;  $y = y = \mp 7$

2.  $y^2 - 16 = 0$ ;  $y = y = \mp 4$

3.  $8 - 0,5x^2 = 0$ ;  $x = x = \mp 4$

4.  $y^2 - 2,89 = 0$ ;  $y = y = \mp 1,7$

5.  $25x^2 - 16 = 0$ ;  $x = x = \mp \frac{4}{5}$

6.  $100x^2 - 4 = 0$ ;  $x = x = \mp 0,2$

7.  $(9y + 1)^2 = 4$ ;  $y = y_1 = \frac{1}{9}$ ;  $y_2 = -\frac{1}{3}$

8.  $(x - 2)^2 = 0$ ;  $x = x_1 = x_2 = 2$

9.  $(6 - x)^2 - 100 = 0$ ;  $x = x_1 = -4$ ;  $x_2 = 16$

10.  $16 - \frac{2}{5}x^2 = 0$ ;  $x = x = \mp 2\sqrt{10}$

11.  $19a^2 = 0$ ;  $a = a_1 = a_2 = 0$

12.  $x^2 - 22x + 121 = 0$ ;  $x = x_1 = x_2 = 11$

13.  $25y^2 + 80y + 64 = 4$ ;  $y = y_1 = -1,2$ ;  $y_2 = -2$

14.  $x(x + 15) = 0$ ;  $x = x_1 = 0$ ;  $x_2 = -15$

15.  $-18x^2 + 15x = 0$ ;  $x = x_1 = 0$ ;  $x_2 = \frac{5}{6}$

16.  $7y^2 - 2y = y(6y - 1)$ ;  $y = y_1 = 0$ ;  $y_2 = \frac{1}{6}$

17.  $10y - y^2 = 0$ ;  $y = y_1 = 0$ ;  $y_2 = 10$

18.  $(2x - 0,4)(5 + x) = 0$ ;  $x = x_1 = 0,2$ ;  $x_2 = -5$

19.  $x^2 = -25$ ;  $x = x = \emptyset$

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### 2. variants

Atrisini kvadrātvienādojumus!

1.  $x^2 = 25$ ;  $x = \mathbf{x = \mp 5}$

2.  $x^2 - 4 = 0$ ;  $x = \mathbf{x = \mp 2}$

3.  $2 - 0,5y^2 = 0$ ;  $y = \mathbf{y = \mp 2}$

4.  $x^2 - 1,69 = 0$ ;  $x = \mathbf{x = \mp 1,3}$

5.  $16y^2 - 25 = 0$ ;  $y = \mathbf{y = \mp 1,25}$

6.  $100y^2 - 16 = 0$ ;  $y = \mathbf{y = \mp 0,4}$

7.  $(3x + 1)^2 = 9$ ;  $x = \mathbf{x_1 = \frac{2}{3}; x_2 = -\frac{1}{3}}$

8.  $(y - 1)^2 = 0$ ;  $y = \mathbf{y_1 = y_2 = 1}$

9.  $(4 - y)^2 - 81 = 0$ ;  $y = \mathbf{y_1 = -5; y_2 = 13}$

10.  $8 - \frac{2}{5}x^2 = 0$ ;  $x = \mathbf{x = \mp 2\sqrt{5}}$

11.  $13m^2 = 0$ ;  $m = \mathbf{m_1 = m_2 = 0}$

12.  $y^2 - 12y + 36 = 0$ ;  $y = \mathbf{y_1 = y_2 = 6}$

13.  $9x^2 - 36x + 36 = 9$ ;  $x = \mathbf{x_1 = 3; x_2 = 1}$

14.  $y(y + 5) = 0$ ;  $y = \mathbf{y_1 = 0; y_2 = -5}$

15.  $-8y^2 + 18y = 0$ ;  $y = \mathbf{y_1 = 0; y_2 = 2\frac{1}{4}}$

16.  $7x^2 - 3x = x(5x - 1)$ ;  $x = \mathbf{x_1 = 0; x_2 = 1}$

17.  $3x - x^2 = 0$ ;  $x = \mathbf{x_1 = 0; x_2 = 3}$

18.  $(2y - 0,2)(3 + y) = 0$ ;  $y = \mathbf{y_1 = 0,1; y_2 = -3}$

19.  $y^2 = -36$ ;  $y = \mathbf{y = \emptyset}$