

Контрольная домашняя работа
Иррациональные уравнения

№	1 задание	2 задание	3 задание	4 задание	5 задание	6 задание
1	$\sqrt[3]{27-5x} = x+3$	$\sqrt[3]{-4x^2-9x+8} = 2$	$-\sqrt{-20-6x} = -2-x$	$\sqrt{4x+6} = \sqrt{34-3x}$	$\sqrt{4x+1} - \sqrt{7-3x} = 2$	$\begin{cases} 4\sqrt{5x-4y} - 2\sqrt{17x+y} = 4 \\ 5\sqrt{5x-4y} - \sqrt{17x+y} = 11 \end{cases}$
2	$\sqrt[3]{-1-17x} = x-1$	$\sqrt[3]{4x^2+3x-343} = -7$	$-\sqrt{22-6x} = 5-x$	$\sqrt{2x-3} = \sqrt{6-x}$	$\sqrt{2x+31} - \sqrt{-2-2x} = 3$	$\begin{cases} 5\sqrt{15x+2y} - \sqrt{19x+y} = 11 \\ 4\sqrt{15x+2y} + \sqrt{19x+y} = 28 \end{cases}$
3	$\sqrt[3]{8-16x} = 2x+2$	$\sqrt[3]{9x^2-2x-125} = -5$	$4\sqrt{15-2x} = 15-x$	$\sqrt{3x-3} = \sqrt{24-6x}$	$\sqrt{2x+29} - \sqrt{7-x} = 2$	$\begin{cases} 4\sqrt{11x+5y} - 2\sqrt{8x-4y} = -4 \\ 5\sqrt{11x+5y} + 4\sqrt{8x-4y} = 21 \end{cases}$
4	$\sqrt[3]{64+13x} = -3x+4$	$\sqrt[3]{5x^2-2x-216} = -6$	$-2\sqrt{89-8x} = 19-x$	$\sqrt{2x+3} = \sqrt{10-5x}$	$\sqrt{2x+31} - \sqrt{7-3x} = 1$	$\begin{cases} 2\sqrt{-4x-5y} - 2\sqrt{-3x-4y} = 0 \\ \sqrt{-4x-5y} - 3\sqrt{-3x-4y} = -2 \end{cases}$
5	$\sqrt[3]{-27+8x} = 4x-3$	$\sqrt[3]{-2x^2+2x+1} = 1$	$-3\sqrt{14-2x} = 11-x$	$\sqrt{3x-2} = \sqrt{18-x}$	$\sqrt{2x+29} - \sqrt{1-4x} = 2$	$\begin{cases} 5\sqrt{6x+5y} - 3\sqrt{5x+2y} = 11 \\ \sqrt{6x+5y} - 3\sqrt{5x+2y} = -5 \end{cases}$
6	$\sqrt[3]{-1-19x} = x-1$	$\sqrt[3]{5x^2-8x-8} = -2$	$-2\sqrt{33-4x} = 12-x$	$\sqrt{5x+7} = \sqrt{39-3x}$	$\sqrt{3x+13} - \sqrt{6-2x} = 2$	$\begin{cases} 4\sqrt{-2x-2y} - \sqrt{7x+2y} = 7 \\ \sqrt{-2x-2y} - 4\sqrt{7x+2y} = -2 \end{cases}$
7	$\sqrt[3]{-64+19x} = 3x-4$	$\sqrt[3]{-3x^2+4x-729} = -9$	$-2\sqrt{41-8x} = 13-x$	$\sqrt{6x+5} = \sqrt{33-x}$	$\sqrt{3x+7} - \sqrt{-x} = 1$	$\begin{cases} 5\sqrt{-x+2y} + 4\sqrt{14x-5y} = 17 \\ 3\sqrt{-x+2y} + 3\sqrt{14x-5y} = 12 \end{cases}$
8	$\sqrt[3]{-8+x} = -2x-2$	$\sqrt[3]{7x^2-8x+1} = 1$	$-5\sqrt{20-2x} = 22-x$	$\sqrt{5x+4} = \sqrt{10-x}$	$\sqrt{4x-3} - \sqrt{13-3x} = 1$	$\begin{cases} \sqrt{5x+2y} - 2\sqrt{3x-3y} = -5 \\ 5\sqrt{5x+2y} + 4\sqrt{3x-3y} = 17 \end{cases}$
9	$\sqrt[3]{-1-19x} = 4x-1$	$\sqrt[3]{-3x^2-9x-216} = -6$	$\sqrt{25-4x} = 7-x$	$\sqrt{2x-5} = \sqrt{27-6x}$	$\sqrt{4x-3} - \sqrt{7-x} = 1$	$\begin{cases} 2\sqrt{12x+y} - 3\sqrt{25x+3y} = -6 \\ 3\sqrt{12x+y} - \sqrt{25x+3y} = 5 \end{cases}$
10	$\sqrt[3]{27-2x} = -4x-3$	$\sqrt[3]{3x^2+6x+512} = 8$	$3\sqrt{14-2x} = 11-x$	$\sqrt{3x-1} = \sqrt{23-5x}$	$\sqrt{2x+31} - \sqrt{4-4x} = 1$	$\begin{cases} 2\sqrt{-5x-3y} + 4\sqrt{19x+5y} = 14 \\ 3\sqrt{-5x-3y} + \sqrt{19x+5y} = 6 \end{cases}$

11	$\sqrt[3]{-8+7x} = -2x-2$	$\sqrt[3]{5x^2-2x+1} = 1$	$-5\sqrt{18-2x} = 21-x$	$\sqrt{2x+2} = \sqrt{14-2x}$	$\sqrt{2x+19} - \sqrt{15-2x} = 2$	$\begin{cases} \sqrt{5x+y} + 3\sqrt{6x+5y} = 5 \\ 2\sqrt{5x+y} + 2\sqrt{6x+5y} = 6 \end{cases}$
12	$\sqrt[3]{27-5x} = 3x+3$	$\sqrt[3]{-6x^2+2x-8} = -2$	$-\sqrt{1-8x} = 2-x$	$\sqrt{4x-1} = \sqrt{6-3x}$	$\sqrt{3x+22} - \sqrt{7-3x} = 3$	$\begin{cases} 3\sqrt{16x-5y} + 3\sqrt{13x-3y} = 9 \\ \sqrt{16x-5y} - 3\sqrt{13x-3y} = -5 \end{cases}$
13	$\sqrt[3]{-8+10x} = -4x-2$	$\sqrt[3]{-7x^2-3x+729} = 9$	$-4\sqrt{77-4x} = 35-x$	$\sqrt{5x+3} = \sqrt{19-3x}$	$\sqrt{4x+33} - \sqrt{8-4x} = 1$	$\begin{cases} \sqrt{31x+5y} + \sqrt{10x+3y} = 5 \\ 2\sqrt{31x+5y} - 2\sqrt{10x+3y} = 6 \end{cases}$
14	$\sqrt[3]{-27+13x} = -3x-3$	$\sqrt[3]{-5x^2-3x+216} = 6$	$3\sqrt{20-2x} = 14-x$	$\sqrt{6x+1} = \sqrt{33-2x}$	$\sqrt{3x+13} - \sqrt{-11-4x} = 1$	$\begin{cases} 2\sqrt{3x-2y} + 3\sqrt{10x+2y} = 12 \\ 5\sqrt{3x-2y} - 2\sqrt{10x+2y} = 11 \end{cases}$
15	$\sqrt[3]{8-11x} = 3x+2$	$\sqrt[3]{-7x^2+x+1} = 1$	$-5\sqrt{28-2x} = 26-x$	$\sqrt{7x-7} = \sqrt{11-2x}$	$\sqrt{3x+10} - \sqrt{12-4x} = 2$	$\begin{cases} 2\sqrt{-5x-3y} + 3\sqrt{13x+4y} = 7 \\ 5\sqrt{-5x-3y} + \sqrt{13x+4y} = 11 \end{cases}$
16	$\sqrt[3]{64-13x} = -3x+4$	$\sqrt[3]{-2x^2+4x+1} = 1$	$-\sqrt{8-2x} = 4-x$	$\sqrt{4x+1} = \sqrt{25-4x}$	$\sqrt{2x+3} - \sqrt{16-4x} = 1$	$\begin{cases} 3\sqrt{24x+5y} - 2\sqrt{31x+5y} = 1 \\ 4\sqrt{24x+5y} - 3\sqrt{31x+5y} = 0 \end{cases}$
17	$\sqrt[3]{-1+13x} = -x-1$	$\sqrt[3]{-4x^2-2x-729} = -9$	$-4\sqrt{15-2x} = 15-x$	$\sqrt{2x+3} = \sqrt{27-4x}$	$\sqrt{3x+19} - \sqrt{17-4x} = 2$	$\begin{cases} 3\sqrt{21x+5y} + 2\sqrt{17x+y} = 20 \\ 5\sqrt{21x+5y} - 3\sqrt{17x+y} = 8 \end{cases}$
18	$\sqrt[3]{64-2x} = 3x+4$	$\sqrt[3]{-6x^2+4x-1} = -1$	$-2\sqrt{7-2x} = 5-x$	$\sqrt{4x-7} = \sqrt{17-4x}$	$\sqrt{4x+13} - \sqrt{15-2x} = 2$	$\begin{cases} \sqrt{12x+4y} + 4\sqrt{17x-y} = 20 \\ 3\sqrt{12x+4y} + 4\sqrt{17x-y} = 28 \end{cases}$
19	$\sqrt[3]{27-17x} = 2x+3$	$\sqrt[3]{4x^2+5x-1} = -1$	$2\sqrt{13-4x} = 7-x$	$\sqrt{6x+3} = \sqrt{27-2x}$	$\sqrt{3x+25} - \sqrt{-2-2x} = 2$	$\begin{cases} \sqrt{7x+3y} - \sqrt{11x+2y} = -1 \\ 3\sqrt{7x+3y} + 4\sqrt{11x+2y} = 18 \end{cases}$
20	$\sqrt[3]{8+5x} = -3x+2$	$\sqrt[3]{3x^2-6x-8} = -2$	$2\sqrt{29-4x} = 11-x$	$\sqrt{3x+6} = \sqrt{24-3x}$	$\sqrt{4x+13} - \sqrt{7-2x} = 4$	$\begin{cases} 3\sqrt{31x-5y} + 2\sqrt{-2x+y} = 14 \\ 5\sqrt{31x-5y} + \sqrt{-2x+y} = 21 \end{cases}$
21	$\sqrt[3]{-1-12x} = 3x-1$	$\sqrt[3]{-x^2-5x+27} = 3$	$4\sqrt{61-4x} = 31-x$	$\sqrt{6x+5} = \sqrt{40-x}$	$\sqrt{3x+28} - \sqrt{5-4x} = 2$	$\begin{cases} 2\sqrt{13x-y} + 2\sqrt{12x+y} = 14 \\ 5\sqrt{13x-y} - 3\sqrt{12x+y} = 11 \end{cases}$

22	$\sqrt[3]{27-12x} = 2x+3$	$\sqrt[3]{-9x^2-4x+64} = 4$	$2\sqrt{13-2x} = 8-x$	$\sqrt{7x-1} = \sqrt{44-2x}$	$\sqrt{2x+27} - \sqrt{-x} = 4$	$\begin{cases} \sqrt{11x+2y} + \sqrt{-4x-5y} = 4 \\ 4\sqrt{11x+2y} + 3\sqrt{-4x-5y} = 15 \end{cases}$
23	$\sqrt[3]{-8-7x} = x-2$	$\sqrt[3]{x^2+x-512} = -8$	$5\sqrt{32-2x} = 28-x$	$\sqrt{3x+6} = \sqrt{13-4x}$	$\sqrt{2x+7} - \sqrt{5-4x} = 2$	$\begin{cases} \sqrt{-x+5y} - 4\sqrt{5x+4y} = -10 \\ 4\sqrt{-x+5y} - \sqrt{5x+4y} = 5 \end{cases}$
24	$\sqrt[3]{27-7x} = x+3$	$\sqrt[3]{-9x^2+4x+216} = 6$	$-\sqrt{-2-6x} = 1-x$	$\sqrt{2x+1} = \sqrt{7-6x}$	$\sqrt{2x+23} - \sqrt{20-4x} = 1$	$\begin{cases} 2\sqrt{x-4y} + 2\sqrt{-2x-3y} = 10 \\ \sqrt{x-4y} - 4\sqrt{-2x-3y} = -5 \end{cases}$
25	$\sqrt[3]{1+x} = -3x+1$	$\sqrt[3]{3x^2+7x-729} = -9$	$3\sqrt{58-6x} = 23-x$	$\sqrt{3x+3} = \sqrt{11-x}$	$\sqrt{3x+7} - \sqrt{10-2x} = 2$	$\begin{cases} 2\sqrt{21x+4y} + 2\sqrt{x-5y} = 14 \\ \sqrt{21x+4y} + 4\sqrt{x-5y} = 19 \end{cases}$
26	$\sqrt[3]{-27-5x} = x-3$	$\sqrt[3]{2x^2+x+343} = 7$	$-\sqrt{28-6x} = 6-x$	$\sqrt{3x-1} = \sqrt{14-2x}$	$\sqrt{3x+19} - \sqrt{1-3x} = 2$	$\begin{cases} \sqrt{-2x-3y} - 3\sqrt{5x-4y} = -8 \\ \sqrt{-2x-3y} - 2\sqrt{5x-4y} = -5 \end{cases}$
27	$\sqrt[3]{-64-10x} = x-4$	$\sqrt[3]{-8x^2-3x+512} = 8$	$3\sqrt{18-2x} = 13-x$	$\sqrt{2x+7} = \sqrt{3-2x}$	$\sqrt{4x+29} - \sqrt{13-3x} = 1$	$\begin{cases} \sqrt{-11x-5y} - 2\sqrt{16x+4y} = -2 \\ 5\sqrt{-11x-5y} + \sqrt{16x+4y} = 12 \end{cases}$
28	$\sqrt[3]{8+13x} = -2x+2$	$\sqrt[3]{-6x^2+9x+27} = 3$	$3\sqrt{8-2x} = 8-x$	$\sqrt{6x+4} = \sqrt{44-2x}$	$\sqrt{2x+19} - \sqrt{25-3x} = 1$	$\begin{cases} \sqrt{8x-4y} + 2\sqrt{3x+y} = 6 \\ 4\sqrt{8x-4y} - 2\sqrt{3x+y} = 14 \end{cases}$
29	$\sqrt[3]{-8+6x} = 3x-2$	$\sqrt[3]{6x^2+x+729} = 9$	$-\sqrt{-23-8x} = -1-x$	$\sqrt{5x-5} = \sqrt{40-4x}$	$\sqrt{3x+28} - \sqrt{-4x} = 3$	$\begin{cases} \sqrt{17x-4y} + \sqrt{-3x+2y} = 4 \\ 4\sqrt{17x-4y} + 3\sqrt{-3x+2y} = 15 \end{cases}$
30	$\sqrt[3]{-64+17x} = 2x-4$	$\sqrt[3]{2x^2-6x+125} = 5$	$-4\sqrt{53-4x} = 29-x$	$\sqrt{2x+5} = \sqrt{23-7x}$	$\sqrt{4x+17} - \sqrt{-7-4x} = 2$	$\begin{cases} 2\sqrt{18x+3y} - \sqrt{19x+5y} = 4 \\ \sqrt{18x+3y} + 2\sqrt{19x+5y} = 7 \end{cases}$