

УСЛОВИЯ

Вариант 1.

1. $\sqrt{8x^2 - 5x + 3} = 6x + 10$
2. $\sqrt{-9x^2 - 3x + 4} = \sqrt{-6x + 1}$
3. $\sqrt[3]{x - 130} + \sqrt{x - 4} = -4$
4. $\sqrt{-5x + 1} + \sqrt{-x + 1} = \sqrt{4x + 1}$
5. $\sqrt{x^2 - 22x + 21} = \sqrt{x - 21}\sqrt{x - 1}$
6. $\sqrt{2x + 3} - \sqrt{6x - 4} = 2$
7. $(5x + 4)\sqrt{x^2 - 8x - 8} = (7x^2 - 7)\sqrt{x^2 - 8x - 8}$
8. $\sqrt{x + 82 - 18\sqrt{x + 1}} + \sqrt{x + 17 + 8\sqrt{x + 1}} = 15$

Вариант 2.

1. $\sqrt{-7x^2 - x + 4} = -4x - 2$
2. $\sqrt{6x^2 - 9x - 8} = \sqrt{3x - 5}$
3. $\sqrt[3]{x - 66} + \sqrt{x - 1} = -3$
4. $\sqrt{3x - 1} + \sqrt{-3x + 5} = \sqrt{5x - 3}$
5. $\sqrt{x^2 - 9x - 360} = \sqrt{x - 24}\sqrt{x + 15}$
6. $\sqrt{6x + 2} - \sqrt{4x + 5} = 3$
7. $(8x + 8)\sqrt{-2x^2 - 2x + 5} = (-2x^2 + 6)\sqrt{-2x^2 - 2x + 5}$
8. $\sqrt{x + 34 - 12\sqrt{x - 2}} + \sqrt{x + 2 + 4\sqrt{x - 2}} = 14$

Вариант 3.

1. $\sqrt{-4x^2 + 7x + 6} = 8x - 5$
2. $\sqrt{3x^2 + 10x - 9} = \sqrt{8x - 3}$
3. $\sqrt[3]{x - 121} + \sqrt{x + 13} = -2$
4. $\sqrt{-x + 3} + \sqrt{-2x + 4} = \sqrt{x + 2}$
5. $\sqrt{x^2 - 19x - 330} = \sqrt{x - 30}\sqrt{x + 11}$
6. $\sqrt{x - 2} - \sqrt{7x - 3} = -4$
7. $(-2x + 5)\sqrt{-6x^2 + 8x + 7} = (9x^2 - 1)\sqrt{-6x^2 + 8x + 7}$
8. $\sqrt{x + 14} - 4\sqrt{x + 10} + \sqrt{x + 26} + 8\sqrt{x + 10} = 15$

Вариант 4.

1. $\sqrt{-10x^2 - 8x + 6} = 9x - 3$
2. $\sqrt{10x^2 - 9x - 2} = \sqrt{x - 1}$
3. $\sqrt[3]{x + 28} + \sqrt{x + 26} = 8$
4. $\sqrt{-x + 2} + \sqrt{-2x + 4} = \sqrt{x + 3}$
5. $\sqrt{x^2 - 26x + 69} = \sqrt{x - 23}\sqrt{x - 3}$
6. $\sqrt{6x - 3} - \sqrt{4x + 4} = 2$
7. $(8x + 9)\sqrt{-x^2 + 10x + 1} = (4x^2 - 6)\sqrt{-x^2 + 10x + 1}$
8. $\sqrt{x + 10} - 2\sqrt{x + 9} + \sqrt{x + 13} + 4\sqrt{x + 9} = 17$

Вариант 5.

1. $\sqrt{5x^2 + 2x + 9} = -6x + 2$

2. $\sqrt{-4x^2 - 6x + 3} = \sqrt{10x + 4}$

3. $\sqrt[3]{x + 120} + \sqrt{x + 20} = 10$

4. $\sqrt{x + 3} + \sqrt{-3x - 3} = \sqrt{x + 4}$

5. $\sqrt{x^2 + 9x - 10} = \sqrt{x - 1}\sqrt{x + 10}$

6. $\sqrt{4x + 1} - \sqrt{6x - 1} = -1$

7. $(-4x - 4)\sqrt{-9x^2 - 6x + 4} = (-9x^2 - 1)\sqrt{-9x^2 - 6x + 4}$

8. $\sqrt{x + 83} - 18\sqrt{x + 2} + \sqrt{x + 27} + 10\sqrt{x + 2} = 18$

Вариант 6.

1. $\sqrt{-7x^2 + 10x + 6} = 5x - 8$

2. $\sqrt{-7x^2 - 8x + 5} = \sqrt{-10x - 2}$

3. $\sqrt[3]{x + 29} + \sqrt{x + 6} = 5$

4. $\sqrt{3x + 5} + \sqrt{-5x - 5} = \sqrt{2x + 5}$

5. $\sqrt{x^2 + 10x + 24} = \sqrt{x + 4}\sqrt{x + 6}$

6. $\sqrt{x + 4} - \sqrt{2x + 5} = -2$

7. $(-8x - 10)\sqrt{-6x^2 - 10x + 2} = (-8x^2 - 5)\sqrt{-6x^2 - 10x + 2}$

8. $\sqrt{x + 11} - 6\sqrt{x + 2} + \sqrt{x + 18} + 8\sqrt{x + 2} = 15$

Вариант 7.

1. $\sqrt{2x^2 - 10x + 4} = -10x + 4$

2. $\sqrt{7x^2 + 3x - 5} = \sqrt{5x - 2}$

3. $\sqrt[3]{x - 61} + \sqrt{x + 4} = -3$

4. $\sqrt{-5x + 2} + \sqrt{-5x + 3} = \sqrt{2x + 1}$

5. $\sqrt{x^2 - 24x - 145} = \sqrt{x - 29}\sqrt{x + 5}$

6. $\sqrt{6x + 5} - \sqrt{3x + 1} = 4$

7. $(-8x + 8)\sqrt{-5x^2 + 2x + 2} = (-3x^2 + 10)\sqrt{-5x^2 + 2x + 2}$

8. $\sqrt{x + 14} - 8\sqrt{x - 2} + \sqrt{x + 23} + 10\sqrt{x - 2} = 17$

Вариант 8.

1. $\sqrt{2x^2 + 6x + 9} = 10x - 3$

2. $\sqrt{-2x^2 - 7x + 2} = \sqrt{-x - 3}$

3. $\sqrt[3]{x + 59} + \sqrt{x + 20} = 9$

4. $\sqrt{-2x + 5} + \sqrt{x - 1} = \sqrt{6x - 4}$

5. $\sqrt{x^2 - 3x - 4} = \sqrt{x - 4}\sqrt{x + 1}$

6. $\sqrt{6x - 5} - \sqrt{4x - 1} = -1$

7. $(x - 6)\sqrt{3x^2 + 10x - 2} = (-x^2 + 2)\sqrt{3x^2 + 10x - 2}$

8. $\sqrt{x + 30} - 10\sqrt{x + 5} + \sqrt{x + 6} + 2\sqrt{x + 5} = 13$

Вариант 9.

1. $\sqrt{2x^2 - 6x + 5} = -4x + 7$
2. $\sqrt{9x^2 - 7x - 1} = \sqrt{8x - 6}$
3. $\sqrt[3]{x - 120} + \sqrt{x + 6} = -4$
4. $\sqrt{-5x + 2} + \sqrt{-3x + 4} = \sqrt{2x + 3}$
5. $\sqrt{x^2 + 16x + 55} = \sqrt{x + 5}\sqrt{x + 11}$
6. $\sqrt{4x - 4} - \sqrt{x - 2} = 4$
7. $(4x + 4)\sqrt{-4x^2 - 5x + 8} = (3x^2 - 8)\sqrt{-4x^2 - 5x + 8}$
8. $\sqrt{x + 23} - 8\sqrt{x + 7} + \sqrt{x + 23} + 8\sqrt{x + 7} = 16$

Вариант 10.

1. $\sqrt{9x^2 + 4x - 3} = 10x + 9$
2. $\sqrt{3x^2 - 7x - 2} = \sqrt{-7x + 8}$
3. $\sqrt[3]{x + 5} + \sqrt{x + 29} = 6$
4. $\sqrt{3x - 1} + \sqrt{-x + 1} = \sqrt{6x - 2}$
5. $\sqrt{x^2 - 3x - 270} = \sqrt{x - 18}\sqrt{x + 15}$
6. $\sqrt{6x - 4} - \sqrt{x + 3} = -1$
7. $(-7x + 7)\sqrt{3x^2 - 9x - 1} = (-6x^2 + 8)\sqrt{3x^2 - 9x - 1}$
8. $\sqrt{x + 61} - 16\sqrt{x - 3} + \sqrt{x + 22} + 10\sqrt{x - 3} = 15$

Вариант 11.

1. $\sqrt{-8x^2 - 4x + 8} = -10x - 4$
2. $\sqrt{-9x^2 + 7x + 10} = \sqrt{-3x - 1}$
3. $\sqrt[3]{x + 10} + \sqrt{x + 27} = 7$
4. $\sqrt{-2x + 5} + \sqrt{-x + 2} = \sqrt{2x - 2}$
5. $\sqrt{x^2 + 8x + 7} = \sqrt{x + 1}\sqrt{x + 7}$
6. $\sqrt{5x + 5} - \sqrt{6x - 5} = -1$
7. $(x - 2)\sqrt{-x^2 - 6x - 4} = (-x^2 + 5)\sqrt{-x^2 - 6x - 4}$
8. $\sqrt{x + 6 - 4\sqrt{x + 2}} + \sqrt{x + 6 + 4\sqrt{x + 2}} = 16$

Вариант 12.

1. $\sqrt{-3x^2 + 3x + 9} = -5x + 2$
2. $\sqrt{x^2 + x - 3} = \sqrt{3x + 1}$
3. $\sqrt[3]{x + 68} + \sqrt{x + 5} = 5$
4. $\sqrt{-2x + 4} + \sqrt{2x - 2} = \sqrt{5x - 4}$
5. $\sqrt{x^2 - 31x + 84} = \sqrt{x - 28}\sqrt{x - 3}$
6. $\sqrt{7x + 1} - \sqrt{3x + 2} = -1$
7. $(8x + 10)\sqrt{-6x^2 + 8x + 6} = (-3x^2 + 9)\sqrt{-6x^2 + 8x + 6}$
8. $\sqrt{x + 9 - 8\sqrt{x - 7}} + \sqrt{x + 9 + 8\sqrt{x - 7}} = 16$

Вариант 13.

1. $\sqrt{7x^2 + x - 2} = -7x + 4$
2. $\sqrt{-2x^2 - 9x - 8} = \sqrt{3x + 7}$
3. $\sqrt[3]{x - 31} + \sqrt{x + 21} = 2$
4. $\sqrt{x + 1} + \sqrt{-2x + 2} = \sqrt{4x - 1}$
5. $\sqrt{x^2 + 7x - 98} = \sqrt{x - 7}\sqrt{x + 14}$
6. $\sqrt{2x + 3} - \sqrt{x + 1} = 2$
7. $(-9x + 8)\sqrt{-3x^2 + 6x + 8} = (-2x^2 + 6)\sqrt{-3x^2 + 6x + 8}$
8. $\sqrt{x + 8} - 4\sqrt{x + 4} + \sqrt{x + 13} + 6\sqrt{x + 4} = 18$

Вариант 14.

1. $\sqrt{x^2 + 2x + 10} = 5x - 10$
2. $\sqrt{-x^2 - 9x - 5} = \sqrt{7x + 5}$
3. $\sqrt[3]{x + 6} + \sqrt{x + 23} = 7$
4. $\sqrt{-4x + 4} + \sqrt{-2x + 2} = \sqrt{5x + 5}$
5. $\sqrt{x^2 - 8x - 84} = \sqrt{x - 14}\sqrt{x + 6}$
6. $\sqrt{2x + 4} - \sqrt{4x - 3} = 2$
7. $(-6x + 7)\sqrt{x^2 - 5x - 2} = (7x^2 - 2)\sqrt{x^2 - 5x - 2}$
8. $\sqrt{x + 60} - 16\sqrt{x - 4} + \sqrt{x - 3} + 2\sqrt{x - 4} = 11$

Вариант 15.

1. $\sqrt{10x^2 - 7x - 3} = 10x + 4$

2. $\sqrt{-5x^2 - 6x + 10} = \sqrt{-10x - 6}$

3. $\sqrt[3]{x - 23} + \sqrt{x + 5} = -2$

4. $\sqrt{-2x + 4} + \sqrt{-x + 4} = \sqrt{6x + 2}$

5. $\sqrt{x^2 + 22x + 117} = \sqrt{x + 9}\sqrt{x + 13}$

6. $\sqrt{x + 3} - \sqrt{4x + 5} = -4$

7. $(-4x - 4)\sqrt{4x^2 - 10x + 3} = (-6x^2 + 7)\sqrt{4x^2 - 10x + 3}$

8. $\sqrt{x + 17} - 8\sqrt{x + 1} + \sqrt{x + 26} + 10\sqrt{x + 1} = 11$

Вариант 16.

1. $\sqrt{-5x^2 - 3x + 7} = 10x - 1$

2. $\sqrt{2x^2 - 10x - 7} = \sqrt{10x + 3}$

3. $\sqrt[3]{x - 5} + \sqrt{x + 21} = 4$

4. $\sqrt{-x + 2} + \sqrt{-3x + 4} = \sqrt{x + 4}$

5. $\sqrt{x^2 + 21x + 104} = \sqrt{x + 8}\sqrt{x + 13}$

6. $\sqrt{2x + 3} - \sqrt{6x + 4} = -5$

7. $(8x - 4)\sqrt{-x^2 + 5x + 9} = (-x^2 + 2)\sqrt{-x^2 + 5x + 9}$

8. $\sqrt{x + 10} - 6\sqrt{x + 1} + \sqrt{x + 17} + 8\sqrt{x + 1} = 17$

Вариант 17.

1. $\sqrt{-x^2 + 9x + 1} = -3x + 8$
2. $\sqrt{-x^2 + 10x + 4} = \sqrt{6x - 10}$
3. $\sqrt[3]{x - 29} + \sqrt{x + 23} = 2$
4. $\sqrt{x + 1} + \sqrt{-3x + 2} = \sqrt{x + 2}$
5. $\sqrt{x^2 + x - 30} = \sqrt{x - 5}\sqrt{x + 6}$
6. $\sqrt{2x - 5} - \sqrt{x - 4} = 3$
7. $(-10x + 1)\sqrt{-10x^2 + 6x + 6} = (8x^2 - 8)\sqrt{-10x^2 + 6x + 6}$
8. $\sqrt{x + 40 - 12\sqrt{x + 4}} + \sqrt{x + 13 + 6\sqrt{x + 4}} = 10$

Вариант 18.

1. $\sqrt{2x^2 + 7x + 4} = 6x + 4$
2. $\sqrt{9x^2 + x - 6} = \sqrt{-7x - 4}$
3. $\sqrt[3]{x + 13} + \sqrt{x + 9} = 4$
4. $\sqrt{-x + 1} + \sqrt{-5x + 3} = \sqrt{6x - 2}$
5. $\sqrt{x^2 - 9x - 190} = \sqrt{x - 19}\sqrt{x + 10}$
6. $\sqrt{3x - 3} - \sqrt{2x - 1} = 2$
7. $(3x + 4)\sqrt{x^2 - 9x - 3} = (3x^2 - 1)\sqrt{x^2 - 9x - 3}$
8. $\sqrt{x + 40 - 12\sqrt{x + 4}} + \sqrt{x + 13 + 6\sqrt{x + 4}} = 13$

Вариант 19.

1. $\sqrt{5x^2 + x + 10} = -9x - 1$
2. $\sqrt{-4x^2 + 2x + 3} = \sqrt{-8x + 6}$
3. $\sqrt[3]{x - 23} + \sqrt{x + 20} = 1$
4. $\sqrt{2x + 1} + \sqrt{-2x + 4} = \sqrt{4x + 4}$
5. $\sqrt{x^2 - 10x - 200} = \sqrt{x - 20}\sqrt{x + 10}$
6. $\sqrt{3x + 4} - \sqrt{x - 2} = 4$
7. $(5x - 7)\sqrt{x^2 - 8x + 1} = (-8x^2 - 5)\sqrt{x^2 - 8x + 1}$
8. $\sqrt{x + 35} - 10\sqrt{x + 10} + \sqrt{x + 26} + 8\sqrt{x + 10} = 11$

Вариант 20.

1. $\sqrt{x^2 - 2x + 8} = 4x + 4$
2. $\sqrt{x^2 - 7x + 1} = \sqrt{-9x + 5}$
3. $\sqrt[3]{x - 7} + \sqrt{x + 2} = -1$
4. $\sqrt{x + 3} + \sqrt{2x - 3} = \sqrt{4x - 1}$
5. $\sqrt{x^2 - 14x - 176} = \sqrt{x - 22}\sqrt{x + 8}$
6. $\sqrt{x + 1} - \sqrt{3x + 5} = -3$
7. $(6x + 6)\sqrt{-2x^2 - 8x + 4} = (9x^2 - 3)\sqrt{-2x^2 - 8x + 4}$
8. $\sqrt{x + 53} - 14\sqrt{x + 4} + \sqrt{x + 5} + 2\sqrt{x + 4} = 16$

Вариант 21.

1. $\sqrt{-3x^2 - 2x + 4} = -5x + 1$

2. $\sqrt{-4x^2 - 9x + 5} = \sqrt{-x - 1}$

3. $\sqrt[3]{x + 63} + \sqrt{x + 24} = 9$

4. $\sqrt{-2x + 2} + \sqrt{x + 2} = \sqrt{6x - 2}$

5. $\sqrt{x^2 - 19x - 150} = \sqrt{x - 25}\sqrt{x + 6}$

6. $\sqrt{6x + 1} - \sqrt{3x + 2} = 1$

7. $(-6x + 7)\sqrt{-6x^2 - 4x + 9} = (4x^2 + 1)\sqrt{-6x^2 - 4x + 9}$

8. $\sqrt{x + 11 - 4\sqrt{x + 7}} + \sqrt{x + 32 + 10\sqrt{x + 7}} = 13$

Вариант 22.

1. $\sqrt{x^2 + 5x + 8} = 5x - 8$

2. $\sqrt{-x^2 + 3x + 8} = \sqrt{5x - 1}$

3. $\sqrt[3]{x + 123} + \sqrt{x + 7} = 8$

4. $\sqrt{x + 2} + \sqrt{-4x - 2} = \sqrt{2x + 3}$

5. $\sqrt{x^2 - 13x + 12} = \sqrt{x - 12}\sqrt{x - 1}$

6. $\sqrt{3x - 4} - \sqrt{6x + 3} = -5$

7. $(2x - 9)\sqrt{-x^2 - 10x - 8} = (-8x^2 + 2)\sqrt{-x^2 - 10x - 8}$

8. $\sqrt{x + 26 - 10\sqrt{x + 1}} + \sqrt{x + 2 + 2\sqrt{x + 1}} = 13$

Вариант 23.

1. $\sqrt{10x^2 + 6x + 1} = 6x - 1$

2. $\sqrt{6x^2 + 8x - 3} = \sqrt{-4x - 6}$

3. $\sqrt[3]{x + 30} + \sqrt{x + 12} = 6$

4. $\sqrt{-2x + 2} + \sqrt{-x + 2} = \sqrt{6x - 1}$

5. $\sqrt{x^2 + 27x + 182} = \sqrt{x + 13}\sqrt{x + 14}$

6. $\sqrt{5x - 5} - \sqrt{2x + 1} = 2$

7. $(-4x - 10)\sqrt{-6x^2 - 9x + 9} = (-10x^2 - 5)\sqrt{-6x^2 - 9x + 9}$

8. $\sqrt{x + 57 - 16\sqrt{x - 7}} + \sqrt{x + 2 + 6\sqrt{x - 7}} = 19$

Вариант 24.

1. $\sqrt{9x^2 - 4x + 1} = -9x + 5$

2. $\sqrt{2x^2 + 10x - 8} = \sqrt{4x + 10}$

3. $\sqrt[3]{x + 1} + \sqrt{x + 11} = 2$

4. $\sqrt{x + 4} + \sqrt{-x + 2} = \sqrt{6x - 4}$

5. $\sqrt{x^2 + 3x - 18} = \sqrt{x - 3}\sqrt{x + 6}$

6. $\sqrt{x - 1} - \sqrt{6x - 4} = -2$

7. $(6x + 9)\sqrt{2x^2 + 8x + 1} = (5x^2 - 7)\sqrt{2x^2 + 8x + 1}$

8. $\sqrt{x + 3 - 6\sqrt{x - 6}} + \sqrt{x + 19 + 10\sqrt{x - 6}} = 12$

Вариант 25.

1. $\sqrt{x^2 + 2x + 9} = 2x - 3$
2. $\sqrt{6x^2 - 5x - 7} = \sqrt{7x - 8}$
3. $\sqrt[3]{x - 12} + \sqrt{x + 12} = 2$
4. $\sqrt{-5x + 5} + \sqrt{3x + 1} = \sqrt{6x + 2}$
5. $\sqrt{x^2 - 8x - 153} = \sqrt{x - 17}\sqrt{x + 9}$
6. $\sqrt{x + 1} - \sqrt{3x + 2} = -4$
7. $(6x + 4)\sqrt{-5x^2 - 4x + 7} = (9x^2 - 6)\sqrt{-5x^2 - 4x + 7}$
8. $\sqrt{x - 5} - 2\sqrt{x - 6} + \sqrt{x + 10} + 8\sqrt{x - 6} = 16$

Вариант 26.

1. $\sqrt{9x^2 + 6x + 1} = -8x - 7$
2. $\sqrt{-2x^2 - 9x + 9} = \sqrt{-7x - 2}$
3. $\sqrt[3]{x - 122} + \sqrt{x + 7} = -3$
4. $\sqrt{-3x + 2} + \sqrt{-4x + 4} = \sqrt{2x + 5}$
5. $\sqrt{x^2 + 9x + 18} = \sqrt{x + 3}\sqrt{x + 6}$
6. $\sqrt{3x + 5} - \sqrt{5x - 1} = -4$
7. $(-6x + 8)\sqrt{-5x^2 - 10x + 3} = (-5x^2 + 10)\sqrt{-5x^2 - 10x + 3}$
8. $\sqrt{x - 9} - 2\sqrt{x - 10} + \sqrt{x + 15} + 10\sqrt{x - 10} = 19$

Вариант 27.

1. $\sqrt{7x^2 + 8x - 8} = -6x + 6$

2. $\sqrt{-3x^2 + 6x + 8} = \sqrt{9x - 1}$

3. $\sqrt[3]{x - 127} + \sqrt{x + 14} = -1$

4. $\sqrt{x + 5} + \sqrt{-x + 1} = \sqrt{6x + 1}$

5. $\sqrt{x^2 + x - 42} = \sqrt{x - 6}\sqrt{x + 7}$

6. $\sqrt{3x + 2} - \sqrt{6x + 3} = -5$

7. $(-x + 7)\sqrt{-x^2 + 7x + 5} = (x^2 + 4)\sqrt{-x^2 + 7x + 5}$

8. $\sqrt{x + 11} - 8\sqrt{x - 5} + \sqrt{x - 4} + 2\sqrt{x - 5} = 15$

Вариант 28.

1. $\sqrt{x^2 - 8x - 10} = 7x + 10$

2. $\sqrt{-2x^2 + 6x + 9} = \sqrt{-4x + 5}$

3. $\sqrt[3]{x + 126} + \sqrt{x + 2} = 6$

4. $\sqrt{x + 1} + \sqrt{-2x + 3} = \sqrt{5x - 2}$

5. $\sqrt{x^2 - 25x - 26} = \sqrt{x - 26}\sqrt{x + 1}$

6. $\sqrt{7x - 2} - \sqrt{5x + 1} = 4$

7. $(-10x + 9)\sqrt{-2x^2 - 9x - 1} = (3x^2 + 7)\sqrt{-2x^2 - 9x - 1}$

8. $\sqrt{x + 7} - 2\sqrt{x + 6} + \sqrt{x + 22} + 8\sqrt{x + 6} = 11$

Вариант 29.

1. $\sqrt{-3x^2 + 3x + 10} = -4x + 6$

2. $\sqrt{-x^2 + 8x + 3} = \sqrt{-6x + 10}$

3. $\sqrt[3]{x+0} + \sqrt{x+5} = 1$

4. $\sqrt{-3x+4} + \sqrt{-5x+4} = \sqrt{x+2}$

5. $\sqrt{x^2 - 5x - 176} = \sqrt{x-16}\sqrt{x+11}$

6. $\sqrt{7x-5} - \sqrt{4x+4} = 3$

7. $(9x-10)\sqrt{-2x^2-4x+2} = (-x^2-8)\sqrt{-2x^2-4x+2}$

8. $\sqrt{x-3-2\sqrt{x-4}} + \sqrt{x-3+2\sqrt{x-4}} = 13$

Вариант 30.

1. $\sqrt{4x^2 + 9x + 6} = -4x - 5$

2. $\sqrt{5x^2 - 5x - 6} = \sqrt{-3x + 3}$

3. $\sqrt[3]{x+28} + \sqrt{x+2} = 4$

4. $\sqrt{-5x+5} + \sqrt{-4x+1} = \sqrt{4x+4}$

5. $\sqrt{x^2 + 5x - 126} = \sqrt{x-9}\sqrt{x+14}$

6. $\sqrt{3x-1} - \sqrt{4x-4} = -3$

7. $(-5x-6)\sqrt{x^2+9x-3} = (-3x^2-1)\sqrt{x^2+9x-3}$

8. $\sqrt{x+22-8\sqrt{x+6}} + \sqrt{x+15+6\sqrt{x+6}} = 14$

ОТВЕТЫ

Вариант 1.

1. -1

2. $-\frac{1}{6}\sqrt{13} + \frac{1}{6}$

3. 5

4. $-\frac{1}{40} + \frac{1}{40}\sqrt{61}$

5. $[21; +\infty)$

6. $\frac{15}{4} - \frac{1}{2}\sqrt{38}$

7. $4 - 2\sqrt{6}; 4 + 2\sqrt{6}; \frac{5}{14} - \frac{3}{14}\sqrt{37}$

8. 99

Вариант 2.

1. $-\frac{17}{23}$

2. $1 + \frac{1}{2}\sqrt{6}$

3. 2

4. $\frac{71}{61} + \frac{8\sqrt{13}}{61}$

5. $[24; +\infty)$

6. $24 + 3\sqrt{65}$

7. $-\frac{1}{2} - \frac{1}{2}\sqrt{11}; -\frac{1}{2} + \frac{1}{2}\sqrt{11}; -2 + \sqrt{3}$

8. 83

Вариант 3.

1. 1

2. $-\frac{1}{3} + \frac{1}{3}\sqrt{19}$

3. -4

4. $\frac{1}{4}\sqrt{46}$

5. $[30; +\infty)$

6. $\frac{67}{18} + \frac{2}{9}\sqrt{46}$

7. $\frac{2}{3} - \frac{1}{6}\sqrt{58}; \frac{2}{3} + \frac{1}{6}\sqrt{58}; -\frac{1}{9} + \frac{1}{9}\sqrt{55}$

8. $\frac{129}{4}$

Вариант 4.

1. $\frac{3}{7}$

2. $\frac{1}{2} + \frac{1}{10}\sqrt{35}$

3. -1

4. $-\frac{1}{2} + \frac{5}{4}\sqrt{2}$

5. $[23; +\infty)$

6. $\frac{27}{2} + 2\sqrt{42}$

7. $5 - \sqrt{26}; 5 + \sqrt{26}; 1 + \frac{1}{2}\sqrt{19}$

8. 55

Вариант 5.

1. $-\frac{5}{31}$

2. $-2 + \frac{1}{2}\sqrt{15}$

3. 5

4. $-\frac{12}{7} + \frac{2}{21}\sqrt{51}$

5. $[1; +\infty)$

6. $\frac{7}{2} + \sqrt{11}$

7. $-\frac{1}{3} - \frac{1}{3}\sqrt{5}; -\frac{1}{3} + \frac{1}{3}\sqrt{5}; \frac{2}{9} - \frac{1}{9}\sqrt{31}$

8. 119

Вариант 6.

1. $\frac{29}{16}$

2. $\frac{1}{7} - \frac{5}{7}\sqrt{2}$

3. -2

4. $-\frac{25}{19} + \frac{5\sqrt{5}}{38}$

5. $[-4; +\infty)$

6. $11 + 4\sqrt{11}$

7. $-\frac{5}{6} - \frac{1}{6}\sqrt{37}; -\frac{5}{6} + \frac{1}{6}\sqrt{37}; \frac{1}{2} - \frac{1}{4}\sqrt{14}$

8. 47

Вариант 7.

1. $\frac{2}{7}$

2. $\frac{1}{7} + \frac{1}{7}\sqrt{22}$

3. -3

4. $-\frac{1}{22} + \frac{1}{22}\sqrt{89}$

5. $[29; +\infty)$

6. $\frac{44}{3} + \frac{8}{3}\sqrt{29}$

7. $\frac{1}{5} - \frac{1}{5}\sqrt{11}; \frac{1}{5} + \frac{1}{5}\sqrt{11}; \frac{4}{3} - \frac{1}{3}\sqrt{22}$

8. 66

Вариант 8.

1. $\frac{33}{49}$

2. $-\frac{3}{2} - \frac{1}{2}\sqrt{19}$

3. 5

4. $\frac{70}{57} + \frac{4\sqrt{7}}{57}$

5. $[4; +\infty)$

6. $\frac{9}{2} - \sqrt{13}$

7. $-\frac{1}{2} + \frac{1}{2}\sqrt{33}; -\frac{5}{3} - \frac{1}{3}\sqrt{31}; -\frac{5}{3} + \frac{1}{3}\sqrt{31}$

8. $\frac{269}{4}$

Вариант 9.

1. $\frac{11}{7}$

2. $\frac{5}{6} + \frac{1}{6}\sqrt{5}$

3. -5

4. $-\frac{11}{20} + \frac{3\sqrt{39}}{20}$

5. $[-5; +\infty)$

6. $\frac{86}{9} + \frac{16\sqrt{13}}{9}$

7. $-\frac{5}{8} - \frac{3}{8}\sqrt{17}; -\frac{5}{8} + \frac{3}{8}\sqrt{17}; \frac{2}{3} - \frac{2}{3}\sqrt{10}$

8. 57

Вариант 10.

1. $-\frac{6}{7}$

2. $-\frac{1}{3}\sqrt{30}$

3. -4

4. $\frac{4}{7} + \frac{1}{7}\sqrt{2}$

5. $[18; +\infty)$

6. $\frac{42}{25} - \frac{4\sqrt{29}}{25}$

7. $\frac{3}{2} - \frac{1}{6}\sqrt{93}; \frac{3}{2} + \frac{1}{6}\sqrt{93}; \frac{7}{12} - \frac{1}{12}\sqrt{73}$

8. 84

Вариант 11.

1. $-\frac{2}{3}$

2. $\frac{5}{9} - \frac{2}{9}\sqrt{31}$

3. -2

4. $\frac{27}{17} + \frac{4\sqrt{2}}{17}$

5. $[-1; +\infty)$

6. $21 + 2\sqrt{85}$

7. $-3 - \sqrt{5}; \sqrt{5} - 3; -\frac{1}{2} - \frac{1}{2}\sqrt{29}$

8. 62

Вариант 12.

1. $-\frac{5}{28}$

2. $\sqrt{5} + 1$

3. -4

4. $\frac{54}{41} + \frac{8\sqrt{2}}{41}$

5. $[28; +\infty)$

6. $\frac{7}{8} - \frac{1}{8}\sqrt{65}$

7. $\frac{2}{3} - \frac{1}{3}\sqrt{13}; \frac{2}{3} + \frac{1}{3}\sqrt{13}; -\frac{4}{3} + \frac{1}{3}\sqrt{13}$

8. 71

Вариант 13.

1. $\frac{1}{2}$

2. $-3 + \frac{1}{2}\sqrt{6}$

3. 4

4. $\frac{20}{33} + \frac{2\sqrt{34}}{33}$

5. $[7; +\infty)$

6. $10 + 4\sqrt{7}$

7. $1 - \frac{1}{3}\sqrt{33}; 1 + \frac{1}{3}\sqrt{33}; \frac{9}{4} - \frac{1}{4}\sqrt{65}$

8. $\frac{273}{4}$

Вариант 14.

1. 3

2. $-8 + 3\sqrt{6}$

3. 2

4. $-\frac{21}{89} + \frac{40\sqrt{2}}{89}$

5. $[14; +\infty)$

6. $\frac{19}{2} - 2\sqrt{19}$

7. $\frac{5}{2} - \frac{1}{2}\sqrt{33}; \frac{5}{2} + \frac{1}{2}\sqrt{33}; -\frac{3}{7} - \frac{6}{7}\sqrt{2}$

8. 85

Вариант 15.

1. $-\frac{1}{3}$

2. $\frac{2}{5} - \frac{2}{5}\sqrt{21}$

3. -4

4. $\frac{30}{73} + \frac{8\sqrt{46}}{73}$

5. $[-9; +\infty)$

6. $\frac{74}{9} + \frac{8\sqrt{85}}{9}$

7. $\frac{5}{4} - \frac{1}{4}\sqrt{13}; \frac{5}{4} + \frac{1}{4}\sqrt{13}; \frac{1}{3} - \frac{1}{6}\sqrt{70}$

8. 24

Вариант 16.

1. $\frac{1}{3}$

2. $5 + \sqrt{30}$

3. 4

4. $-\frac{10}{13} + \frac{4\sqrt{29}}{13}$

5. $[-8; +\infty)$

6. $\frac{49}{4} + \frac{5}{4}\sqrt{85}$

7. $\frac{5}{2} - \frac{1}{2}\sqrt{61}; \frac{5}{2} + \frac{1}{2}\sqrt{61}; -4 + \sqrt{22}$

8. 63

Вариант 17.

1. $\frac{3}{2}$

2. $2 + 3\sqrt{2}$

3. 2

4. $\frac{1}{21} + \frac{2}{21}\sqrt{37}$

5. $[5; +\infty)$

6. $28 + 6\sqrt{15}$

7. $\frac{3}{10} - \frac{1}{10}\sqrt{69}; \frac{3}{10} + \frac{1}{10}\sqrt{69}; -\frac{5}{8} + \frac{1}{8}\sqrt{97}$

8. $\frac{153}{4}$

Вариант 18.

1. $-\frac{1}{2}$

2. $-\frac{4}{9} - \frac{1}{9}\sqrt{34}$

3. -5

4. $\frac{14}{31} + \frac{1}{31}\sqrt{10}$

5. $[19; +\infty)$

6. $22 + 12\sqrt{3}$

7. $\frac{9}{2} - \frac{1}{2}\sqrt{93}; \frac{9}{2} + \frac{1}{2}\sqrt{93}; \frac{1}{2} - \frac{1}{6}\sqrt{69}$

8. 60

Вариант 19.

1. $-\frac{9}{19}$

2. $\frac{5}{4} - \frac{1}{4}\sqrt{13}$

3. -4

4. $\frac{1}{2} + \frac{1}{8}\sqrt{46}$

5. $[20; +\infty)$

6. $13 + 4\sqrt{7}$

7. $4 - \sqrt{15}; 4 + \sqrt{15}; -\frac{5}{16} - \frac{1}{16}\sqrt{89}$

8. 26

Вариант 20.

1. $-\frac{4}{15}$

2. $-1 - \sqrt{5}$

3. -1

4. $-1 + \frac{2}{7}\sqrt{77}$

5. $[22; +\infty)$

6. $7 + \frac{3}{2}\sqrt{23}$

7. $-2 - \sqrt{6}; -2 + \sqrt{6}; \frac{1}{3} - \frac{1}{3}\sqrt{10}$

8. 117

Вариант 21.

1. $-\frac{3}{14}$

2. $-\frac{1}{2}\sqrt{5}\sqrt{2} - 1$

3. 1

4. $\frac{2}{3} + \frac{4\sqrt{19}}{57}$

5. $[25; +\infty)$

6. $\frac{4}{3} + \frac{2}{3}\sqrt{5}$

7. $-\frac{1}{3} - \frac{1}{6}\sqrt{58}; -\frac{1}{3} + \frac{1}{6}\sqrt{58}; -\frac{3}{4} + \frac{1}{4}\sqrt{33}$

8. 18

Вариант 22.

1. $\frac{8}{3}$

2. $-1 + \sqrt{10}$

3. 2

4. $-\frac{35}{41} + \frac{10\sqrt{2}}{41}$

5. $[12; +\infty)$

6. $\frac{68}{3} + \frac{10}{3}\sqrt{39}$

7. $-5 - \sqrt{17}; -5 + \sqrt{17}; -\frac{1}{8} - \frac{1}{8}\sqrt{89}$

8. $\frac{285}{4}$

Вариант 23.

1. $\frac{9}{13}$

2. $-1 - \frac{1}{2}\sqrt{2}$

3. -3

4. $\frac{33}{73} + \frac{12\sqrt{3}}{73}$

5. $[-13; +\infty)$

6. $\frac{46}{9} + \frac{4}{9}\sqrt{85}$

7. $-\frac{3}{4} - \frac{1}{4}\sqrt{33}; -\frac{3}{4} + \frac{1}{4}\sqrt{33}; \frac{1}{5} - \frac{3}{10}\sqrt{6}$

8. 151

Вариант 24.

1. $\frac{4}{9}$

2. $-\frac{3}{2} + \frac{3}{2}\sqrt{5}$

3. -2

4. $\frac{7}{5} + \frac{1}{10}\sqrt{26}$

5. $[3; +\infty)$

6. $\frac{43}{25} + \frac{4\sqrt{14}}{25}$

7. $-2 - \frac{1}{2}\sqrt{14}; -2 + \frac{1}{2}\sqrt{14}; \frac{3}{5} + \frac{1}{5}\sqrt{89}$

8. 31

Вариант 25.

1. $\frac{14}{3}$

2. $1 + \frac{1}{6}\sqrt{30}$

3. 4

4. $\frac{13}{31} + \frac{10\sqrt{2}}{31}$

5. $[17; +\infty)$

6. $\frac{31}{2} + 10\sqrt{2}$

7. $-\frac{2}{5} - \frac{1}{5}\sqrt{39}; -\frac{2}{5} + \frac{1}{5}\sqrt{39}; \frac{1}{3} - \frac{1}{3}\sqrt{11}$

8. $\frac{193}{4}$

Вариант 26.

1. $-\frac{6}{5}$

2. $-\frac{1}{2} - \frac{1}{2}\sqrt{23}$

3. -3

4. $-\frac{31}{33} + \frac{8\sqrt{31}}{33}$

5. $[-3; +\infty)$

6. $35 + 4\sqrt{74}$

7. $-1 - \frac{2}{5}\sqrt{10}; -1 + \frac{2}{5}\sqrt{10}; \frac{3}{5} - \frac{1}{5}\sqrt{19}$

8. $\frac{265}{4}$

Вариант 27.

1. $\frac{22}{29}$

2. $-\frac{1}{2} + \frac{1}{2}\sqrt{13}$

3. 2

4. $\frac{11}{20} + \frac{1}{20}\sqrt{71}$

5. $[6; +\infty)$

6. $\frac{74}{3} + \frac{10}{3}\sqrt{51}$

7. $\frac{7}{2} - \frac{1}{2}\sqrt{69}; \frac{7}{2} + \frac{1}{2}\sqrt{69}; -\frac{1}{2} + \frac{1}{2}\sqrt{13}$

8. 86

Вариант 28.

1. $-\frac{5}{4}$

2. $\frac{5}{2} - \frac{1}{2}\sqrt{33}$

3. -1

4. $\frac{19}{22} + \frac{1}{22}\sqrt{97}$

5. $[26; +\infty)$

6. $\frac{99}{2} + 6\sqrt{66}$

7. $-\frac{9}{4} - \frac{1}{4}\sqrt{73}; -\frac{9}{4} + \frac{1}{4}\sqrt{73}; -\frac{5}{3} - \frac{1}{3}\sqrt{31}$

8. 10

Вариант 29.

1. $\frac{13}{19}$

2. $7 - \sqrt{42}$

3. -1

4. $-\frac{10}{21} + \frac{4\sqrt{43}}{21}$

5. $[16; +\infty)$

6. $14 + 4\sqrt{11}$

7. $-1 - \sqrt{2}; \sqrt{2} - 1; -\frac{9}{2} + \frac{1}{2}\sqrt{89}$

8. $\frac{185}{4}$

Вариант 30.

1. $-\frac{19}{12}$

2. $\frac{1}{5} - \frac{1}{5}\sqrt{46}$

3. -1

4. $-\frac{24}{89} + \frac{20\sqrt{5}}{89}$

5. $[9; +\infty)$

6. $66 + 12\sqrt{29}$

7. $-\frac{9}{2} - \frac{1}{2}\sqrt{93}; -\frac{9}{2} + \frac{1}{2}\sqrt{93}; \frac{5}{6} + \frac{1}{6}\sqrt{85}$

8. $\frac{201}{4}$