

## rieapilogo

1	$2\sqrt{x^2 - 3} =  3x + 1  -  x + 5 $	$x = -2$
2	$\sqrt{x - 2} + \frac{1}{\sqrt{x - 2}} = 5$	$x_1 = \frac{27 - 5\sqrt{21}}{2}; x_2 = \frac{27 + 5\sqrt{21}}{2}$
3	$\frac{3 - x^2 -  x - 3 }{\sqrt{1 - x^2}} = 0$	$x = 0$
4	$\sqrt{x - 3} = \sqrt{x} - 1$	$x = 4$
5	$\frac{5 + \sqrt{9 - 5x}}{\sqrt{x} - 2} = -8$	$x_1 = \frac{784}{529}; x_2 = \frac{16}{9}$
6	$\sqrt{(x - 1)(x + 5)} = 3x - 5$	$x = 3$
7	$\sqrt{ x - 2  - 5} - \sqrt{4 -  x } = 0$	$x_1 = -\frac{7}{2}; x_2 = \frac{11}{2}$
8	$\sqrt[3]{2 + x^3} = x + 1$	$x_1 = \frac{-3 + \sqrt{21}}{6}$
9	$x + 2 = 11 - 2x - \sqrt{x^2 + 30 - 11x}$	$x = \frac{43 - \sqrt{217}}{16}$
10	$\frac{3x + 1}{\sqrt{x^2 + 1}} - 3\frac{x}{ x } = 0$	$x = \frac{4}{3}$
11	$\sqrt[3]{8x - x^2} = \sqrt[3]{x + 5}$	$x_1 = \frac{7 - \sqrt{29}}{2}; x_2 = \frac{7 + \sqrt{29}}{2}$
12	$4\sqrt{2x + 3} + \sqrt{2x - 21} = 3\sqrt{2x + 27}$	$x = 11$
13	$\sqrt{x + 1} =  2x - 2 $	$x_1 = \frac{9 - \sqrt{33}}{8}; x_2 = \frac{9 + \sqrt{33}}{8}$
14	$\sqrt{x + 1} = 4 - \sqrt{x} - \frac{1}{\sqrt{x + 1} - \sqrt{x}}$	$x = \frac{9}{16}$
15	$ x^2 - 2x + 1  - 1 = - x $	$x_1 = 0; x_2 = 1$
16	$\sqrt[3]{x^2 - 1} = \sqrt{1 - 2x + x^2}$	$x_1 = 1; x_2 = 3$
17	$2 x - 4  - x = \sqrt{3x^2 - 4x - 4}$	$x = \frac{11 - \sqrt{19}}{3}$
18	$\frac{x^2 - 1}{x^2 - 4} - \left  \frac{x}{x - 2} \right  = \frac{3}{2} - \left  \frac{2x + 1}{x + 2} \right $	$x_1 = 5 + \sqrt{19}; x_2 = \frac{1 - 3\sqrt{11}}{7}$
19	$\frac{1}{3 + \sqrt{x - 3}} + \frac{1}{3 - \sqrt{x - 3}} = 1$	$x = 6$
20	$\sqrt[3]{\frac{8x^2}{x^2 + 2x + 1}} = \left  \frac{3x}{2x + 2} \right $	$x_1 = -\frac{64}{91}; x_2 = -\frac{64}{37}; x_3 = 0$

21	$5 - \sqrt[3]{84 - 4(x^2 + 4)^{\frac{1}{3}}} = 1$	$x = -11, x = 11$
22	$\sqrt[3]{12 - (5x - 9)^{\frac{1}{2}}} = 2$	$x = 5$
23	$x + \sqrt{(2x - 1)^{\frac{1}{2}}} = 5(x - \sqrt{2x - 1})^{\frac{1}{2}} - \frac{3}{\sqrt{x + \sqrt{2x - 1}}}$	$\nexists x \in R$
24	$\frac{1}{3} - \frac{ x - 1  + x}{1 -  x } = 0$	$\nexists x \in R$
25	$\frac{1}{4 + x^2} = -1 -  x^2 - 4x + 3 $	$\nexists x \in R$
26	$\sqrt{6x^2 - 2x} =  x - 3 $	$x = -\frac{9}{5}, x = 1$
27	$(x - 1)(x + 1) -  2x - 4  = 6 + x^2$	$\nexists x \in R$
28	$\sqrt[3]{2x - 3} + \frac{7}{\sqrt[3]{2x - 3}} = 8$	$x = 2, x = 173$
29	$\frac{4}{\sqrt{x - 2}} = \sqrt{x - 4} - \sqrt{x - 2}$	$\nexists x \in R$
30	$\sqrt[7]{4 - \sqrt[3]{7 + 10(3x^2 + 4)^{\frac{1}{4}}}} = 1$	$x = -2, x = 2$
31	$\sqrt[5]{x^2 + 12x + 9} = \sqrt[5]{2x + 3}$	$x = -2, x = -8$
32	$\sqrt[5]{x^2 + 7x + 9} = \sqrt[5]{2x + 3}$	$x = -2, x = -3$
33	$\sqrt{5x + \sqrt{12x - 2}} = 1 + \sqrt{5x - 1}$	$x = \frac{1}{4}$
34	$\sqrt{5(x + 1) + \sqrt{2(6x + 5)}} = 1 + \sqrt{5x + 4}$	$x = -\frac{3}{4}$
35	$\sqrt[3]{a - x} - \sqrt[3]{b - x} = \sqrt[3]{a - b}$	$x = a, x = b$
36	$\sqrt{6x^2 - 3x - 5} = 1 - x$	$x = -1$
37	$ x - 1  = 3x + 1$	$x = 0$
38	$\frac{\sqrt{3x - 5}}{2 +  x } = 2$	$\nexists x \in R$
39	$\sqrt[3]{4 - x} + \sqrt[3]{x + 24} = 4$	$x = -23, x = 3$
40	$\frac{x^3 + 3x^2 - x - 3}{ x + 1 } = 0$	$x = -3, x = 1$
41	$\sqrt{ 2x - 6 } =  x  - x$	$x = -\frac{3}{2}, x = 3$