

1	$\sqrt{1-x} = -1$	<i>impossibile</i>
2	$2\sqrt[3]{x-3} + 1 = 5$	$x = 11$
3	$\sqrt{1-3x} = 8$	$x = -21$
4	$\sqrt[3]{\frac{x+1}{x-1}} = 2$	$x = \frac{9}{7}$
5	$\sqrt{7x+2} = \frac{9}{4}$	$x = \frac{7}{16}$
6	$\sqrt[3]{x-4} = 2$	$x = 12$
7	$2\sqrt{-x^2+4-8x} = 1$	$x_{1,2} = \frac{-8 \pm \sqrt{79}}{2}$
8	$\sqrt[3]{13x-5} = 5$	$x = 10$
9	$\sqrt[3]{3x-5} = 1$	$x = \frac{4}{3}$
10	$\sqrt{x-3} = 5-x$	$x = 4$
11	$\frac{\sqrt{6x+1}+3}{2} = x$	$x = 4$
12	$\sqrt{10-x} = 2x+8$	$x = -\frac{9}{4}$
13	$\sqrt{x^2+x+2} = \frac{x+3}{2}$	$x_1 = -\frac{1}{3}; x_2 = 1$
14	$\sqrt{x+1} = x-1$	$x = 3$
15	$\sqrt[3]{x^3-5x-4} = x-1$	$x_1 = -\frac{1}{3}; x_2 = 3$
16	$1 + \sqrt{x^2+3} = 3x$	$x = 1$
17	$\sqrt{4x^2-7x-6} = 9-2x$	$x = 3$
18	$\sqrt{41-x^2} + 1 = x$	$x = 5$
19	$\sqrt{x(2+x)} + 2 = 4-x$	$x = \frac{2}{3}$
20	$\sqrt[3]{3x-4}\sqrt[3]{9x^2-5x+1} = 3x-2$	$x_1 = \frac{1}{3}; x_2 = 4$
21	$x-17 = \sqrt{169-x^2}$	<i>impossibile</i>

22	$x + \sqrt{2x - x^2} = 7$	<i>impossibile</i>
23	$3x + \sqrt{6x + 4} = 38$	$x = 10$
24	$4x + \sqrt{5 + 4x} = 7$	$x = 1$
25	$x + \sqrt{5(x + 2)} = 8$	$x = 3$
26	$2\sqrt{5 - 4x} + 4x = 5$	$x_1 = \frac{1}{4}; x_2 = \frac{5}{4}$
27	$\sqrt{3x - 5} + 3 = x$	$x = 7$
28	$\sqrt{4x^2 + 7x - 2} = x + 2$	$x_1 = -2; x_2 = 1$
29	$\sqrt{4x^2 - 7x - 6} = 9 - 2x$	$x = 3$
30	$3x + \sqrt{9x^2 - 46x} = 10$	<i>impossibile</i>
31	$\sqrt{2x + 5} = 3(x - 1)$	$x = 2$
32	$\sqrt{\frac{1}{5}x(3x - 1)} = -\frac{2}{7}(1 + 3x)$	$x = -5$
33	$\sqrt{x^2 + 3x - 6} = 2x - 6$	$x = 7$
34	$\sqrt{x^2 - 11} + 1 = x$	$x = 6$
35	$\sqrt{x^2 - 1} = x + 2$	$x = -\frac{5}{4}$
36	$4 + x - \sqrt{x^2 - 5x + 4} = 2x$	$x = 4$
37	$\sqrt{16 - x^2} = \frac{x}{2} + 2$	$x_1 = -4; x_2 = \frac{12}{5}$
38	$\sqrt{x - 2} + 5 = 5x$	<i>impossibile</i>
39	$\sqrt[3]{x^3 + 2x^2 - 1} = x + 1$	$x_1 = -2; x_2 = -1$
40	$\sqrt[3]{8x^3 + 20x + 7} = 2x + 1$	$x_1 = -\frac{1}{3}; x_2 = \frac{3}{2}$
41	$3\sqrt{3x} - 3 = 2\sqrt{3x}$	$x = 3$
42	$5x - 12\sqrt{x} + 7 = 0$	$x_1 = 1; x_2 = \frac{49}{25}$

43	$\sqrt{4-3x} - \sqrt{x^2-x-1} = 0$	$x_{1,2} = -1 \pm \sqrt{6}$
44	$\sqrt{36+x} = 18 - \sqrt{x}$	$x = 64$
45	$\sqrt{3(x^2-4)} = \sqrt{5x}$	$x_1 = -\frac{4}{3}; x_2 = 3$
46	$\sqrt{2x^2-x-7} = \sqrt{x^2-3x-8}$	$x = -1$
47	$\sqrt{3-2x-x^2} = \sqrt{x^2-5x+4}$	$x_1 = \frac{1}{2}; x_2 = 1$
48	$\sqrt{x+4ab} - \sqrt{x} = 2a$	$x = (b-a)^2$
49	$\sqrt{2x-3a} = 3\sqrt{a} - \sqrt{2x}$	$x = 2a$
50	$\sqrt{2x-18} = 3 + \sqrt{x}$	$x = 81$
51	$\sqrt{3x+28} = 5 + \sqrt{x-3}$	$x_1 = 12; x_2 = 7$
52	$\sqrt{32+x} - \sqrt{x-4} = 2$	$x = 68$
53	$\sqrt[3]{3x^2-5x+8} = \sqrt[3]{2x^2+2}$	$x_1 = 2; x_2 = 3$
54	$\sqrt[4]{3x^2-2x+25} = \sqrt{3-2x}$	$x = 5 - \sqrt{41}$
55	$\sqrt[3]{x-2} + \sqrt[3]{2x-1} = 0$	$x = 1$
56	$\sqrt{3x-5} - \sqrt{2x-5} = 1$	$x_1 = 3; x_2 = 7$
57	$\sqrt{x-8} - 10 = -\sqrt{x-28}$	$x = 44$
58	$\sqrt{2x+1} + 1 = 2\sqrt{x-1}$	$x = 2(2 + \sqrt{2})$
59	$\sqrt{x-8} - 10 = \sqrt{x-28}$	<i>impossibile</i>
60	$\sqrt[3]{x-3} + \sqrt[3]{2x+4} = 1$	$x = 2$
61	$\sqrt{1+3x} - 1 = \sqrt{2x-1}$	$x_1 = 1; x_2 = 5$
62	$2\sqrt{x+16} - \sqrt{x-16} = 10$	$x_1 = 20; x_2 = \frac{340}{9}$
63	$\sqrt[3]{3-x} + \sqrt[3]{x-2} = 1$	$x_1 = 2; x_2 = 3$

64	$\sqrt{x+2} - \sqrt{x-3} - 1 = 0$	$x = 7$
65	$\sqrt{x+1} - \sqrt{x+6} = -1$	$x = 3$
66	$\sqrt[3]{2-3x} = -\sqrt[3]{3x+7} + 3$	$x_1 = -2; x_2 = \frac{1}{3}$
67	$\sqrt{x+7} - 2 = \sqrt{x-1}$	$x = 2$
68	$\sqrt{3-2x} = 2 - \sqrt{x^2+3}$	<i>impossibile</i>
69	$\sqrt[3]{2x-28} - \sqrt[3]{2x+28} = -2$	$x_{1,2} = \pm 18$
70	$\sqrt{x+3} - 2 = \sqrt{x-5}$	$x = 6$
71	$\sqrt{3-x} + \sqrt{1-x} = \sqrt{4-2x}$	$x_1 = 1; x_2 = 3$
72	$\sqrt{x+1} + \sqrt{x+6} = \sqrt{2x+7}$	$x_1 = -6; x_2 = -1$
73	$\sqrt{x-2} + \sqrt{3x-1} = 2\sqrt{\frac{x}{2}+2}$	$x = \frac{11\sqrt{2}}{4} - 1$
74	$\sqrt{x+5} - \sqrt{x} = \sqrt{2x-7}$	$x = 4$
75	$\sqrt{x+1} + \sqrt{x} = \sqrt{2x} + 1$	$x_1 = 0; x_2 = 1$
76	$\sqrt{x+2} = \sqrt{6-x} - \sqrt{5-x}$	$x = 1 - \frac{2}{5}\sqrt{55}$
77	$\sqrt{2x+6} = \sqrt{x+2} - \sqrt{x-2}$	$x = \sqrt{13}$
78	$\sqrt{2x-2} = \sqrt[4]{3x^2+5x+4}$	$x = 13$
79	$\sqrt[6]{3-3x} - \sqrt[3]{3x-1} = 0$	$x = \frac{2}{3}$
80	$\sqrt{3-2x} = \sqrt[4]{3x^2-2x+25}$	$x = 5 - \sqrt{41}$
81	$\frac{\sqrt{2} + \sqrt{x}}{\sqrt{2} - \sqrt{x}} = 1$	$x = 0$