

1	$\sqrt{1-3x} = 8$	$x = -21$
2	$\sqrt{7x+2} = \frac{9}{4}$	$x = \frac{7}{16}$
3	$\sqrt{1-x} = -1$	<i>Impossibile</i>
4	$2\sqrt{-x^2+4-8x} = 1$	$x_{1,2} = \frac{-8 \pm \sqrt{79}}{2}$
5	$\sqrt[3]{x-4} = 2$	$x = 12$
6	$2\sqrt[3]{x-3} + 1 = 5$	$x = 11$
7	$\sqrt[3]{13x-5} = 5$	$x = 10$
8	$\sqrt[3]{3x-5} = 1$	$x = 2$
9	$\sqrt[3]{\frac{x+1}{x-1}} = 2$	$x = \frac{9}{7}$
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	$\sqrt{x^2+x+2} = \frac{x+3}{2}$	$x_1 = -\frac{1}{3} \quad x_2 = 1$
14	$\sqrt{x+1} = x-1$	$x = 3$
15	$1 + \sqrt{x^2+3} = 3x$	$x = 1$

16	$\sqrt{4x^2 - 7x - 6} = 9 - 2x$	$x = 3$
17	$\sqrt{41 - x^2} + 1 = x$	$x = 5$
18	$\sqrt{x(2 + x)} + 2 = 4 - x$	$x = \frac{2}{3}$
19	$x + \sqrt{2x - x^2} = 7$	<i>impossibile</i>
20	$3x + \sqrt{6x + 4} = 38$	$x = 10$
21	$4x + \sqrt{5 + 4x} = 7$	$x = 1$
22	$x - 17 = \sqrt{169 - x^2}$	<i>impossibile</i>
23	$x + \sqrt{5(x + 2)} = 8$	$x = 3$
24	$2\sqrt{5 - 4x} + 4x = 5$	$x_1 = \frac{1}{4} \quad x_2 = \frac{5}{4}$
25	$\sqrt{3x - 5} + 3 = x$	$x = 7$
26	$\sqrt{4x^2 + 7x - 2} = x + 2$	$x_1 = -2 \quad x_2 = 1$
27	$\sqrt{4x^2 - 7x - 6} = 9 - 2x$	$x = 3$
28	$3x + \sqrt{9x^2 - 46x} = 10$	<i>impossibile</i>
29	$\sqrt{2x + 5} = 3(x - 1)$	$x = 2$

30	$\sqrt{x^2 + 3x - 6} = 2x - 6$	$x = 7$
31	$\sqrt{x^2 - 11} + 1 = x$	$x = 6$
32	$\sqrt{x^2 - 1} = x + 2$	$x = -\frac{5}{4}$
33	$4 + x - \sqrt{x^2 - 5x + 4} = 2x$	$x = 4$
34	$\sqrt{16 - x^2} = \frac{x}{2} + 2$	$x_1 = -4 \quad x_2 = \frac{12}{5}$
35	$\sqrt{x - 2} + 5 = 5x$	<i>impossibile</i>
36	$5x - 12\sqrt{x} + 7 = 0$	$x_1 = 1 \quad x_2 = \frac{49}{25}$
37	$3\sqrt{3x} - 3 = 2\sqrt{3x}$	$x = 3$
38	$\sqrt{\frac{1}{5}x(3x - 1)} = -\frac{2}{7}(1 + 3x)$	$x = -5$
39	$\sqrt[3]{x^3 - 5x - 4} = x - 1$	$x_1 = -\frac{1}{3} \quad x_2 = 3$
40	$\sqrt[3]{x^3 + 2x^2 - 1} = x + 1$	$x_1 = -2 \quad x_2 = -1$
41	$\sqrt[3]{8x^3 + 20x + 7} = 2x + 1$	$x_1 = -\frac{1}{3} \quad x_2 = \frac{3}{2}$
42	$\sqrt[3]{3x - 4} \sqrt[3]{9x^2 - 5x + 1} = 3x - 2$	$x_1 = \frac{1}{3} \quad x_2 = 4$
43	$\sqrt{3(x^2 - 4)} = \sqrt{5x}$	$x_2 = 3$

44	$\sqrt{4-3x} - \sqrt{x^2-x-1} = 0$	$x = -1 - \sqrt{6}$
45	$\sqrt{2x^2-x-7} = \sqrt{x^2-3x-8}$	<i>impossibile</i>
46	$\sqrt{3-2x-x^2} = \sqrt{x^2-5x+4}$	$x_1 = \frac{1}{2} \quad x_2 = 1$
47	$\sqrt{36+x} = 18 - \sqrt{x}$	$x = 64$
48	$\sqrt{2x-18} = 3 + \sqrt{x}$	$x = 81$
49	$\sqrt{3x+28} = 5 + \sqrt{x-3}$	$x_1 = 7 \quad x_2 = 12$
50	$\sqrt{32+x} - \sqrt{x-4} = 2$	$x = 68$
51	$\sqrt{x+4ab} - \sqrt{x} = 2a$	$x = (b-a)^2$
52	$\sqrt{2x-3a} = 3\sqrt{a} - \sqrt{2x}$	$x = 2a$
53	$\sqrt{3x-5} - \sqrt{2x-5} = 1$	$x_1 = 3 \quad x_2 = 7$
54	$\sqrt{x-8} - 10 = -\sqrt{x-28}$	$x = 44$
55	$\sqrt{2x+1} + 1 = 2\sqrt{x-1}$	$x = 2(2 + \sqrt{2})$
56	$\sqrt{x-8} - 10 = \sqrt{x-28}$	<i>impossibile</i>
57	$\sqrt{1+3x} - 1 = \sqrt{2x-1}$	$x_1 = 1 \quad x_2 = 5$

58	$2\sqrt{x+16} - \sqrt{x-16} = 10$	$x_1 = 20 \quad x_2 = \frac{340}{9}$
59	$\sqrt{x+2} - \sqrt{x-3} - 1 = 0$	$x = 7$
60	$\sqrt{x+1} - \sqrt{x+6} = -1$	$x = 3$
61	$\sqrt{x+7} - 2 = \sqrt{x-1}$	$x = 2$
62	$\sqrt{3-2x} = 2 - \sqrt{x^2+3}$	<i>impossibile</i>
63	$\sqrt{x+3} - 2 = \sqrt{x-5}$	$x = 6$
64	$\sqrt[3]{3-x} + \sqrt[3]{x-2} = 1$	$x_1 = 2 \quad x_2 = 3$
65	$\sqrt[3]{2x-28} - \sqrt[3]{2x+28} = -2$	$x_{1,2} = \pm 18$
66	$\sqrt[3]{2-3x} = -\sqrt[3]{3x+7} + 3$	$x_1 = -2 \quad x_2 = \frac{1}{3}$
67	$\sqrt[3]{x-3} + \sqrt[3]{2x+4} = 1$	$x = 2$
68	$\sqrt[3]{3x^2-5x+8} = \sqrt[3]{2x^2+2}$	$x_1 = 2 \quad x_2 = 3$
69	$\sqrt[4]{3x^2-2x+25} = \sqrt{3-2x}$	$x = 5 - \sqrt{41}$
70	$\sqrt[3]{x-2} + \sqrt[3]{2x-1} = 0$	$x = 1$
71	$\sqrt{3-x} + \sqrt{1-x} = \sqrt{4-2x}$	$x = 1$

72	$\sqrt{x+1} + \sqrt{x+6} = \sqrt{2x+7}$	$x = -1$
73	$\sqrt{x-2} + \sqrt{3x-1} = 2\sqrt{\frac{x}{2}+2}$	$x = \frac{-4 + 11\sqrt{2}}{4}$
74	$\sqrt{x+5} - \sqrt{x} = \sqrt{2x-7}$	$x = 4$
75	$\sqrt{x+2} = \sqrt{6-x} - \sqrt{5-x}$	$x = \frac{5 - 2\sqrt{55}}{5}$
76	$\sqrt{2x+6} = \sqrt{x+2} - \sqrt{x-2}$	<i>impossibile</i>
77	$\sqrt{x+1} + \sqrt{x} = \sqrt{2x} + 1$	$x_1 = 0 \quad x_2 = 1$
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	$\frac{\sqrt{2} + \sqrt{x}}{\sqrt{2} - \sqrt{x}} = 1$	$x = 0$