

## Equations Containing Radical Expressions – ANSWERS

1.  $\sqrt{3x-2} = x$ , Solution is: 1, 2
2.  $\sqrt[3]{3x-6} = 3$ , Solution is: 11
3.  $10 + \sqrt{4x-7} = 7$ , No solution
4.  $5 + \sqrt{x+15} = x$ , Solution is: 10
5.  $2\sqrt{x-1} = x-4$ , Solution is: 10
6.  $2\sqrt{x+4} = 1 + \sqrt{2x+9}$ , Solution is: 0
7.  $5\sqrt{x} + 1 = 3\sqrt{x} + 17$ , Solution is: 64
8.  $\sqrt{2x+5} + 5 = x$ , Solution is: 10
9.  $\sqrt{2x+5} - \sqrt{x-1} = \sqrt{x+2}$ , Solution is: 2
10.  $\sqrt[3]{x^3+26} = x+2$ , Solution is: -3, 1
11.  $\sqrt{3x+1} - \sqrt{x-4} = 3$ , Solution is: 8, 5
12.  $\sqrt{x+10} + 10 = x$ , Solution is: 15
13.  $\sqrt[3]{x^3+208} = x+4$ , Solution is: -6, 2
14.  $\sqrt{x-1} + \sqrt{x-4} = \sqrt{4x-11}$ , Solution is: 5
15.  $\sqrt{4x+6} = \sqrt{x+1} - \sqrt{x+5}$ , No solution