

## Radical Equations

1.  $\sqrt{m} = 6$

2.  $3\sqrt{x} = 21$

3.  $2\sqrt{a} - 3 = 4$

4.  $5 + 4\sqrt{x} = 11$

5.  $\sqrt{5x} = 10$

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

7.  $3\sqrt{2x+3} = 12$

8.  $37 = 4\sqrt{2x+6} - 3$

9.  $\sqrt{\frac{5x-3}{2}} = 2$

10.  $7 = \sqrt{\frac{3m+1}{2}}$

11.  $6 = \frac{3 + \sqrt{2y-1}}{3}$

12.  $\frac{8 - \sqrt{3-p}}{3} = 2$

13.  $\sqrt{p} - \sqrt{8} = 2\sqrt{50}$

14.  $3\sqrt{27} + 2\sqrt{x} = \sqrt{300}$

15.  $7 - \sqrt{t^2 - 6t} = 3$

16.  $\sqrt{a^2 + 15a} - 10 = 0$

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

18.  $\sqrt{7x+11} = \sqrt{4x+23}$

19.  $\sqrt{2x-5} = \sqrt{3x-13}$

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

21.  $\sqrt{x}\sqrt{x-2} = 2\sqrt{2}$

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

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

24.  $\sqrt{5 + \sqrt{x}} = 4$

25.  $6 = \sqrt{30 + \sqrt{x+4}}$

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

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

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

29.  $\sqrt[3]{4x-1} = -3$

30.  $(3x-3)^{\frac{2}{3}} = 9$

31.  $\sqrt[5]{2x+6} = -2$

32.  $\sqrt[3]{3x-2} = \sqrt[3]{4x}$