

# Solving: *Rational and Power Equations*

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Solve the equation.

1.  $3\sqrt{x} + 2 = 17$

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

2.  $4m^3 - 13 = -45$

8.  $2\sqrt{5+x} - 2 = 12$

3.  $\sqrt{-8-3x} - 4 = x$

9.  $6p^3 = -18$

4.  $2\sqrt[3]{x} - 5 = 1$

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

5.  $6y^2 - 7 = 29$

11.  $\sqrt{x+3} = 3 - \sqrt{x}$

6.  $2x^2 + 4 = x^2 + 5$

12.  $n^3 - 3 = 61$

## ANSWERS:

1.  $x = 25$

4.  $x = 27$

7. No "Real" solution

10.  $x = 19$

2.  $m = -2$

5.  $y = \pm\sqrt{6}$

8.  $x = 44$

11.  $x = 1$

3.  $x = -3$

6.  $x = \pm 1$

9.  $p = -\sqrt[3]{3}$

12.  $n = \pm 4$