

# SOLVING RATIONAL EQUATIONS

$$1. \left( \frac{1}{6k^2} = \frac{1}{3k^2} - \frac{1}{k} \right) 6k^2$$

$$1 = 2 - 6k$$

$$1 - 2 = -6k$$

$$\frac{-1}{-6} = \frac{-6k}{-6}$$

$$\boxed{-\frac{1}{6} = k}$$

$$2. \left( \frac{1}{n^2} + \frac{1}{5} = \frac{1}{2n^2} \right) 2n^2$$

$$2 + 2n = 1$$

$$2n = 1 - 2$$

$$\frac{2n}{2} = \frac{-1}{2}$$

$$\boxed{n = -\frac{1}{2}}$$

$$3. \left( \frac{1}{6b^2} + \frac{1}{6b} = \frac{1}{6} \right) 6b^2$$

$$1 + b = 6$$

$$b = 6 - 1$$

$$\boxed{b = 5}$$

$$4. \left( \frac{b+6}{4b^2} + \frac{3}{2b^2} = \frac{b+4}{2b^2} \right) 4b^2$$

$$b + 6 + 6 = 2b + 8$$

$$b + 12 = 2b + 8$$

$$b - 2b = 8 - 12$$

$$\frac{-b}{-1} = \frac{-4}{-1}$$

$$\boxed{b = 4}$$

$$5. \left( \frac{1}{x} = \frac{6}{5x} + 1 \right) 5x$$

$$5 = 6 + 5x$$

$$5 - 6 = 5x$$

$$\frac{-1}{5} = \frac{5x}{5}$$

$$\boxed{-\frac{1}{5} = x}$$

$$6. \left( \frac{1}{6x^2} = \frac{1}{2x} + \frac{7}{9x^2} \right) 6x^2$$

$$1 - 7 = 3x$$

$$\frac{-6}{3} = \frac{3x}{3}$$

$$\boxed{-2 = x}$$

$$7. \left( \frac{1}{v} + \frac{3v+12}{v^2-5v} = \frac{7v-56}{v^2-5v} \right) v^2-5v$$

$$v - 5v + 3v + 12 = 7v - 56$$

$$-1v + 12 = 7v - 56$$

$$21 + 25 = 7v - v + 12$$

$$\frac{11}{9} = \frac{11}{9} \cdot \frac{5}{5}$$

$$\frac{5}{9} = \frac{5}{9} \cdot \frac{11}{11}$$

# College Algebra With Problems And Solutions

**DP Hallahan**



## **College Algebra With Problems And Solutions:**

**College Algebra, with Problems and Solutions** Irwin K. Feinstein, Kenneth H. Murphy, 1981-01-01 *College Algebra, with Problems and Solutions* Irwin K. Feinstein, Kenneth H. Murphy, 1965 *College Algebra with Problems and Solutions by Irwin K. Feinstein, Kenneth H. Murphy...* Irwin K. Feinstein, Kenneth H. Murphy, 1965 **College Algebra** Irwin K. Feinstein, Kenneth H. Murphy, 1981-01-01 College Algebra Stephen Blatti, 2025-04-07 In College Algebra Problems and Solutions you will learn BY EXAMPLE the foundational level algebra mathematics of College Algebra Here is an outline of the book materials 1 Functions and Graphs 2 Linear and Quadratic Functions 3 Polynomial and Rational Functions 4 Inverse Exponential and Logarithmic Functions 5 Systems of Equations and Inequalities 6 Matrices and Determinants 7 Sequences Series and Probability 8 Conic Sections *College Algebra* ALEXEY. KRYUKOV, 2017-04-03 This Solutions Manual contains solutions to all typical problems in the textbook *College Algebra* Lecture Notes by the author ISBN 9781545126479 This step by step solution guide is a great complement to the textbook and allows the student to truly master problem solving techniques in College Algebra The textbook itself is a set of lectures and practical exercises in College Algebra written for university students It comes with a computer code to access online lectures recorded in an actual classroom setting tutoring sessions and quizzes which together constitute an effective tool for the fast and independent mastery of College Algebra by the motivated student College Algebra is a gateway course a requirement for all college students Unfortunately many students encounter significant difficulties in mastering the course and are often forced to repeat the course numerous times a discouraging process which is expensive and delays degree completion This textbook addresses these difficulties by streamlining the course to emphasize the understanding of basic concepts The textbook is based on the learning principle of moving from elementary to complex Each topic begins with a straight to the point lecture which introduces the main definitions then an accompanying set of carefully selected problems develops an understanding of the material and the ability to use it in the following topics *The American Mathematical Monthly*, 1908 Includes section Recent publications **Problems & Solutions in Euclidean Geometry** M. N. Aref, William Wernick, 1968 **College Algebra Practice Tests With Solutions** Hcc & Miles, Charles C. Miles, Hcc, 1990-08-01 **EIT Industrial Review** Donovan Young, 2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions End of chapter problems with solutions and a complete sample exam with solutions are provided Topics covered Production Planning and Scheduling Engineering Economics Engineering Statistics Statistical Quality Control Manufacturing Processes Mathematical Optimization and Modeling Simulation Facility Design and Location Work Performance and Methods Manufacturing Systems Design Industrial Ergonomics Industrial Cost Analysis Material Handling System Design Total Quality Management Computer Computations and Modeling Queuing Theory and Modeling Design of Industrial Experiments Industrial Management Information System

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