

# SOLVING RATIONAL EQUATIONS

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

$$1 = 2 - 6k$$

$$1 - 2 = -6k$$

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

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

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

$$2 + 2n = 1$$

$$2n = 1 - 2$$

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

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

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

$$1 + b = 6$$

$$b = 6 - 1$$

$$\boxed{b = 5}$$

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

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

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

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

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

$$\boxed{b = 4}$$

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

$$5 = 6 + 5x$$

$$5 - 6 = 5x$$

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

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

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

$$1 - 7 = 3x$$

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

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

$$7. \left( \frac{1}{v} + \frac{3v+12}{v^2-5v} = \frac{7v-9}{v^2-5v} \right) v^2-5v$$

$$v - 5v + 3v + 12 = 7v - 9$$

$$-1v + 12 = 7v - 9$$

$$21 + 9v = 7v - 9$$

$$\frac{11v}{11} = \frac{-18}{11}$$

$$\boxed{v = -\frac{18}{11}}$$

# Advanced Algebra Problems And Solutions

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## **Advanced Algebra Problems And Solutions:**

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**Advanced Algebra** Arthur Schultze, 1905 **E-math Iv' 2007 Ed.(advance Algebra & Trigonometry) , Higher Algebra** George Egbert Fisher, Isaac Joachim Schwatt, 1901 *New Higher Algebra* Benjamin Greenleaf, 1871 **Advanced Algebra** Palmer Hampton Graham, Frederick Wallace John, 1929 New Higher Algebra Webster Wells, 1899 KWIC Index for Numerical Algebra Alston Scott Householder, 1972 **The History and Significance of Certain Standard Problems in Algebra** Vera Sanford, 1927 *A Short Course in Higher Algebra* Webster Wells, 1889 **Catalogue** Yale University, 1906 **Host Bibliographic Record for Boundwith Item Barcode 30112105618687 and Others** , 1901 Report of the Commissioners, Mainly on Secondary Education, Containing the Summarised Reports, Recommendations, and Extended Reports of the Commissioners New South Wales. Commission on primary, secondary, technical, and other branches of education, 1904 A report on the provision of secondary education from selected countries around the world Addresses and Proceedings - National Education Association of the United States National Education Association of the United States, 1903 Vols for 1866 70 include Proceedings of the American Normal School Association 1866 69 include Proceedings of the National Association of School Superintendents 1870 includes Addresses and journal of proceedings of the Central College Association Annual Register Stanford University, 1910 **Special lists. Mathematics** Cornell university libr, 1883 **New York State Teacher** , 1903 *Bulletin - University Number* Syracuse University, 1919 **Documents of the Senate of the State of New York** New York (State). Legislature. Senate, 1901

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