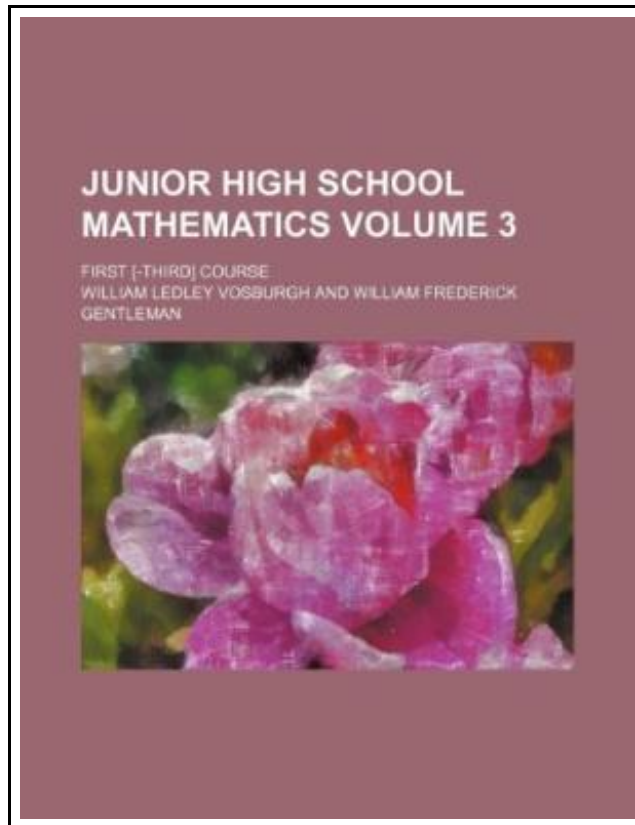


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Reviews

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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1919 Excerpt: .2. Solve $x^2 - 7 = 0$, and check the roots. Solution A (by factoring). (r) $x^2 - 7 = 0$ Since 7 is not a perfect square, its two equal factors are irrational. (r) $(x - \sqrt{7})(x + \sqrt{7}) = 0$ (r) $s =$ (Factoring) (c) $x - \sqrt{7} = 0$, or $x + \sqrt{7} = 0$ (c) by Ax. A (c) $x = +\sqrt{7}$, or $x = -\sqrt{7}$ (c) $x = +2.65$, or $x = -2.65$ Solution B (by square root). (c) $x^2 - 7 = 0$ (c) $x^2 = 7$ (r) $+7$ (c) $x = +2.65$, or -2.65 (c) = (Table) Check. (Use Table of Squares.) $(+2.65)^2 - 7 = 0$ $(-2.65)^2 - 7 = 0$ $7.02 - 7 = 0$ $7.02 - 7 = 0$ Ans. $x = +2.65$, or -2.65 . The discussion of these two methods and the interpretation of the checks follows: Solution A shows that both the plus and the minus values of $\sqrt{7}$ must be recorded. The check shows that both values satisfy the equation. Method B requires less labor, but it is essential that you record both signs in your answer. The answer may be written: $x = \pm 2.65$. Note. In the check the two members are not identical, because the square root of 7 is only an approximate value. The more figures used in the square root, the more nearly identical would the members of the check become. When irrational roots are evaluated, the two members in the Check will not be identical. Example 3. Solve the equation $f = ll$, and check the roots. Solution. (r) $= 11$ (c) $3r = 44$ (c) $\times 4$ (c) $x^2 = 14.7$ (c) $= -3$ (c) $x = 3.83$ (c) $\sqrt{\quad}$ Since the tables give the square roots of three-figure numbers only, retain not more than...



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