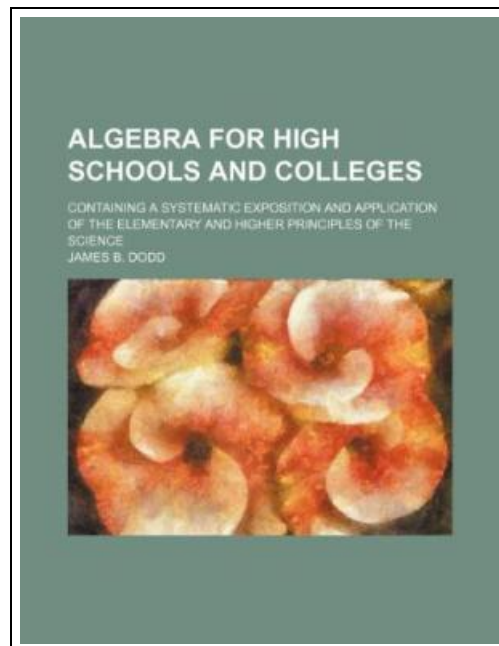


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1859 Excerpt: .fractional exponent or radical sign. 2. Surds of different roots may be reduced to equivalent ones of the same root, (239), and then multiplied, or divided, as above. But 3. Any two roots of the same quantity may be multiplied into each other, by adding together their fractional exponents; or divided, the one into the other, by subtracting the exponent of the divisor from that of the dividend. EXAMPLE. To find the Product of $2\sqrt{10} \times 3\sqrt{2}$. Since it is immaterial in what order the four factors are taken, we may take them in the order; $2 \times 3 \sqrt{10} \times \sqrt{2}$ which gives the Product $6\sqrt{20}$, (234), = $12\sqrt{5}$, (237) The Quotient of $2\sqrt{10} \div 3\sqrt{2}$ is $\sqrt{5}$ since this quotient multiplied by the divisor produces the dividend. EXERCISES On the Multiplication and Division of Surds. 1. Find the Product of $5\sqrt{8} \times 3\sqrt{10}$. Ans. $30\sqrt{10}$. 2. Find the Quotient of $6\sqrt{54} \div 3\sqrt{2}$. Ans. $6\sqrt{3}$. 3. Find the Product of $\sqrt{108} \times 2\sqrt{6}$. Ans. $36\sqrt{2}$. 4. Find the Quotient of $2\sqrt{96} \div \sqrt{54}$. Ans. $2\sqrt{2}$. 5. Find the Product of $3\sqrt{5} \times 4\sqrt{20}$. Ans. $120\sqrt{10}$. 6. Find the Quotient of $4\sqrt{12} \div 2\sqrt{6}$. Ans. $2\sqrt{2}$. 7. Find the Product of $\sqrt{10} \times 3\sqrt{aa}$; Ans. $3a\sqrt{10}$. 8. Find the Quotient of $6\sqrt{12} \div 3\sqrt{4}$. Ans. $2\sqrt{3}$. 9. Find the Product of $\sqrt{18} \times 5\sqrt{4}$. Ans. 109 . 10. Find the Quotient of $4\sqrt{72} \div 2\sqrt{18}$. Ans. $2\sqrt{2}$. 11. Find the Product of $5\sqrt{a} \times 3\sqrt{a}$. By reducing the surds to the same root, we obtain $5\sqrt{a} \times 3\sqrt{a}$, (239)....

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