The Mathematical Monthly Volume 3
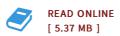
By John Daniel Runkle

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. 1861 Excerpt: .Geometrical Method. The formulas for these operations may be deduced geometrically, by a process very similar to that required for the corresponding rule for cube root. For this purpose, let the following problem be proposed: --Required the dimensions of a rectangular parallelopipcdon whose breadth and length exceed its height by d ami d respectively, and whose solidity is g. Let y = the height; then y--d= the breadth, and y--? = the length. Multiplying together the three dimensions, we have (1) f + (d+d)f + d?y = q. Put s = d--ct, and p = dct; then (2) y + sy+py = rj, the general form employed in the foregoing pages. We will suppose the required root of this equation to be irrational, and let m = the initial figure. Since the entire root is to be the height of a right prism whose several...

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