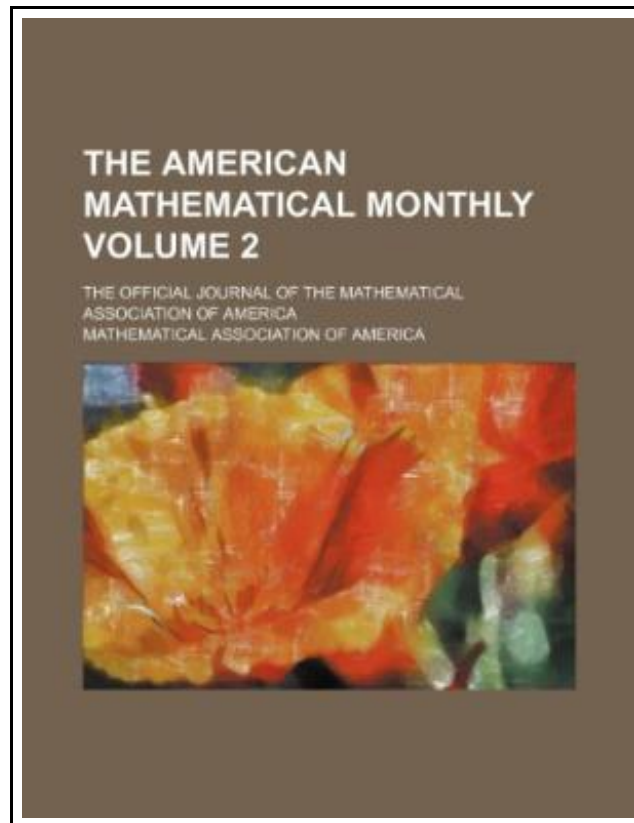


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1895 edition. Excerpt: .department should be sent to him. SOLUTIONS OF PROBLEMS. 20. Proposed by CHAS. E. MYERS, Canton, Ohio. A flexible cord of given length is suspended from two points whose co-ordinates are  $(x, y)$  and  $(-x, y)$ . What, must be the condition of the cord in order that it may hang in the arc of a circle? Solution by WILLIAM HOOVER, A. M., Ph. D Professor of Mathematics and Astronomy, Ohio University, Athens, Ohio. Taking the lowest point for origin, and the horizontal and vertical lines through it for axes of  $x$  and  $y$ , and  $s$ —ap. (1) for the intrinsic equation to the circle. If  $r$  = the constant horizontal component of tension at all points of the cord, the law of mass as given by Theoretical Mechanics is (3).  $dx \cos \theta \frac{ds}{dx} = \frac{r}{g} \cos^3 \theta$  Then (2) gives  $m = \frac{r}{g} \frac{1}{\cos^3 \theta} = \frac{r}{g} \frac{1}{(a-y)^3}$  (4), or the mass unit  $g$   $a - \cos \theta$   $(a - y)$  varies inversely as the square of the distance below the horizontal diameter. Excellent solutions of this problem were also received from W. B. M. ZEBU, and J. P. MA TZ. 21. Proposed by J. A. CALDERHEAD, Superintendent of Schools, Lima, Ohio. 1 Show that, in the wheel and axle, when a force  $P$ , acting at the circumference of the wheel, supports a weight  $Q$  upon the axle,  $\frac{P}{Q} = \frac{r \sin \theta}{p \sin \phi} = \frac{r \cos \theta}{p \sin \phi}$ , where  $r$ ,  $p$ , and  $\theta$  are the radii of the wheel, the axle, and their common axis respectively, and...

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