



## A Syllabus of a Course of Lectures Upon Trigonometry; And the Application of Algebra to Geometry (Paperback)

By Henry Pearson

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. 1833 Excerpt: .is commonly given. 52. The equation  $ay^2+ay+cr^2+=o(6)$ , (suppressing the accents of  $r$  and  $y$ ), may be transformed in all cases, in such a manner, that the term involving  $wy$  may be exterminated, by changing the direction of the rectangular axes (without altering the origin) through an angle- $b$  9, such that  $\tan 9.9 = .a--c$  The transformed equation becomes (suppressing the accents of  $x$  and  $y$ ),  $ay + cV+ / =0(c)$ , or  $ia+c+A/(a-c)^2+62Jy!!+lfa+C-v/(a-c)^2+6aa?2+ /=0(d)$ . 53. If  $4ac$  be greater than  $b^2$ , the coefficients  $d$  and  $c$  must have the same algebraical sign, whether  $+$  or  $--$ : if  $4ac$  be less than  $b^2$ , the coefficients  $a$  and  $c$  must have different algebraical signs, whether  $+$  or  $--$ : if  $4ac = b^2$ , we have  $c = 0$ : but this is the case excepted above (Art. 50.), where the coefficients of the simple powers of  $x$  and  $y$ ...



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