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. 1846 Excerpt: ... them to intersect the directrix in T and T.-Now (Art. 89. a.) Fp: Fp::pt: Pt; whence Fp--Fp: Fp::pt--Pt: Pt; and, since the three first terms are known, the point T is determined. In-like manner, from the proportion the point T is determined: and thus the position of the directrix is found. From the points P, P, P let fall Pq, Pq, Pq perpendicularly on the directrix; and, through F, draw an indefinite line also perpendicular to the directrix, cutting it in D: this will be the direction of the transverse axis; and imagine E and c to be the extremities of that axis. Then, since (Art. 88.) Fp: Pq::fe: Ed, and Fp: Pq::fc: Cd, Fp + Pq: Fp::fd: Fe, and Pq--Fp: Fp::fd: Fc: thus, both Fe and FC are found; and, consequently, the major axis is obtained. If Fp is less than Pq the curve is an ellipse, if equal a parabola, and if greater an hyperbola. Proposition XXXIX. 137. To trisect an angle, or a circular arc, by means of an hyperbola. Let Fda be a given circular arc which is to be trisected: draw the chord Fa; and, having bisected it in c, draw an indefinite line cz perpendicular to Fa. Make CV equal to fc; then if, with F as a focus, v one extremity of the transverse axis, and c z as a directrix, there be described (Art. 89. Scholium) an hyperbolic curve Vpq, it will cut the circular arc in p; and the arc F P, will be one third of the given arc FDA. / For (Art. 88.) having joined f, p, and drawn Pn perpendicular to c z, Fv: Vc::fp: Pn; But, since vc = fc, Fv = 2vc; therefore the straight line Fp = 2pn. Now, if Pn be produced to cut the arc Fda in P/ Pp will be bisected in N, and the arc pDp, or Fda, in D: thus the arcs Fp, Pp, and Pa will be equal to one another, or the arc Fda is trisected in p. If s represent the centre of the h...

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