These peing two admirable Universal Rules in Geometry, the Reader will fird the same (with many others) demonstrated by Dr. VVallis in his treatise De Caculo Center Citavitatis, which together with his other Tracts, De Motu, Statica, Mechanica, are now at the Press in London. The same Rules are likewise demonstrated in Geometriae parte Universali Jacobi Gregorii Scoti, Patavii 1568. Of which a competent number of Copies is expected here.

The Methods of these Learned Mon are different, and good Arguments might be gi-

Men, that they have not communicated nor feen the It orks of each other.

Guldinus, 1. 1. c. 12. Shows a Mechanick way to find the Conter of Gravity of a Surface or Curv'd Line, by 2 free suspensions., from the points of which, perpendiculars beang drawn, do crosseach other at the Center of Gravity. This we mention, to keep the Reader from taking the Center of Gravity of a Curv'd Line as such (which is intended an this 2d Rule) to be the same with the Center of Gravity of the Figure thereby termi-

nated in the first Rule.

3. Considers the Affections of Round Solids, begot from a Parabola, in 10 Propositions from Numb. 20. to 29. both inclusive; whereof the 21 and 23 gives the Hoof required by Angeli, which was formerly cubed by Greg. de S. Vincentio. In the 27th Prop. he gives the Proportion of the Parabolical Conoid to the Spindle made of the same Parabola by rotation about its Base, to be, As the Base of the Parabola is to 16 of the Axis; shewing, that Guldinus err'd through forgetfulness. In Prop. 29. he delivers, that the Parabola bears such a proportion to a Gircle describ'd about the Base thereof as a Diameter, As the Axis of the Parabola doth to that Gircumstence of a Circle, whose Radius is equal to the distance of the Center of Gravity of the Semi-Parabola from the axis.

4. Contains divers endeavors and manifold new ways towards the obtaining the Qua-

drature of the Circle in 12 Propositions.

5. Contains to Propositions, from 41 to 51; in the 42th whereof he finds a Sphere equal to an Hyperbolical Ring-solid; whence divers ways are open'd towards the attaining the Quadrature of the Hyperbola: And he finds a Sphere equal to a Ring made by the Retation of a Segment of an Hyperbola, and of the Segment of a Circle thereto annexed, described about the Base of the Hyperbola as a Chord Line: Then he absolutely cubes certain Hoofs cut out of an Hyperbolical Cylinder, and thence derives other ways towards the obtaining the Quadrature of the Hyperbola.

6. Delivers 3 Theorems, shewing the proportion between an Hyperbola and a Circle:

which are conceived to be wholly new.

But these Theorems suppose the Quadrature of both Figures known, viz. That of a Circle, in requiring the length of the Circumference of a Circle, described by the Center of Gravity of an Hyperbola; which Center cannot be found, without giving the Quadrature or Area of the Hyperbola: which hath been most happily perform'd by M. Merator in his Logarithmo-Technia and further advanc'd by Dr. Walk in N. 38. of these Transactions; and by M. Gregorii also surther promoted and otherwise perform'd in his Exercitations Geometrica, where he shews, the same Methods and Approaches to be likewise applicable to the Circle.

What we have faid, being an Account of one of the most considerable Volumes of Mathematicks extant, we hope we may be the better excused for prolixity. This Author formerly publish'd the Elements of Plain and Solid Geometry in 8°, and an Arithmetick

in 8., wherein he promised a Treatise of Algebra.

Errat. P. 865. l. 24. r.m P C. p. 866. 1 3. del, finistrorsum ; ibid. l. 18. r. Gravi-

sationem ; ib. 1. 24 .r. progressivo ; ib. 1. 2) . r. sit 3, p. 867. 1. 23. r. improprie.

P. 863. Insert immediately before these words [Lege syllabas, Regula. Re, Se, saciunt oR, oS: Ro, So faciunt eS, eR.

## In the SAVOT,

Printed by T. N. for John Martyn, Printer to the Royal Society, and are to be fold at the Bell a little without Temple-Bar, 1668.