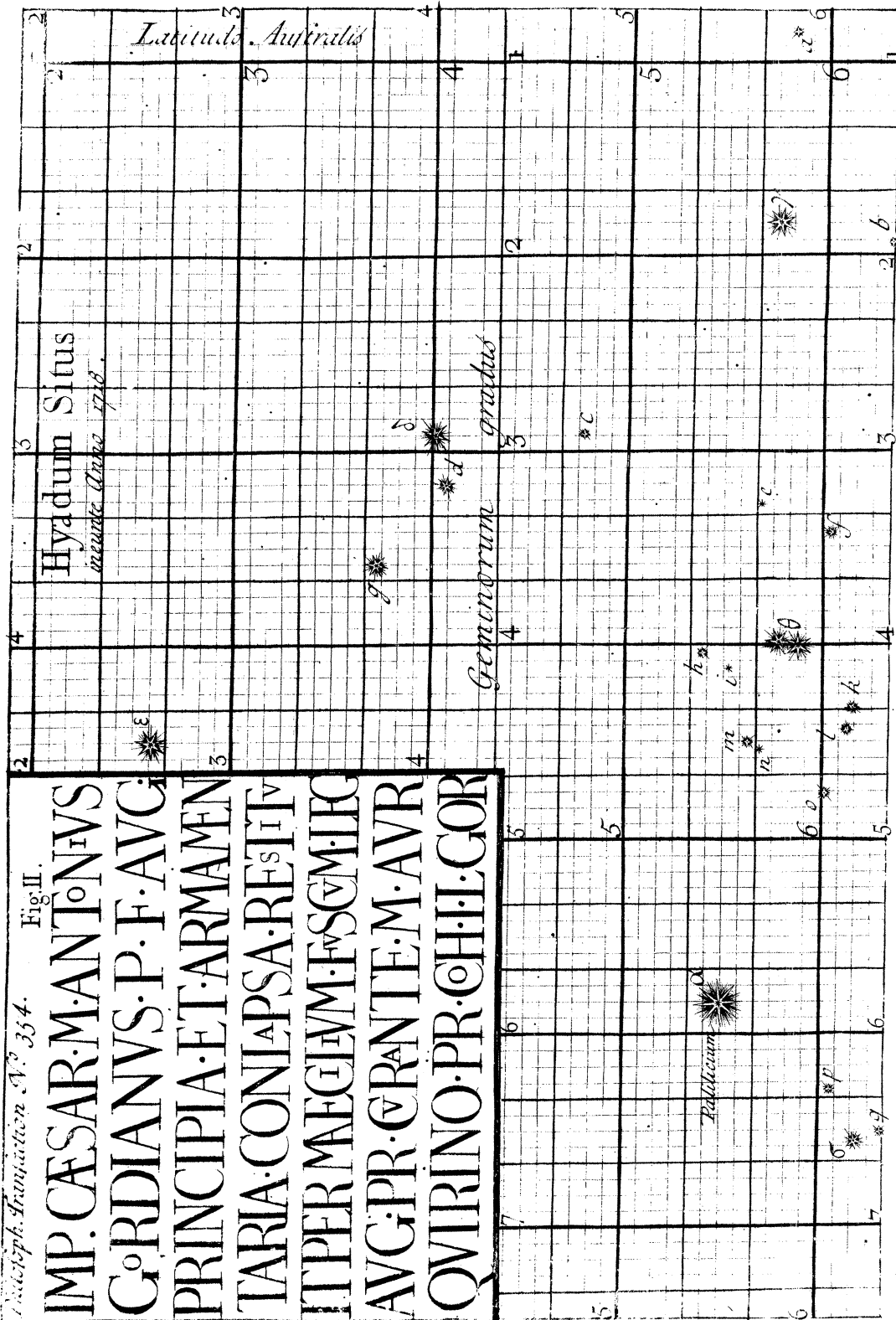


Fig. II.

IMP. CAESAR. M. ANTONIVS
CORDIANVS. P. F. AVGVSTVS
PRINCIPIA. ET. ARMAMENTARIA.
CONIAPSARE. RESITVT
ITPER. MEGIVM. FVSCVM. IHC
AVGVSTVS. GRANTE. M. AVR
QVIRINO. PR. CH. I. GOR



Exemplum. Ad demonstrationem Solutionis nostræ suffecerit exemplum simplicissimum. Sit itaque $n=1$; quo in Casu est ABD semicirculus diametro AG descriptus, atque est EBF item semicirculus descriptus diametro AE . Est autem in hoc Casu $\frac{x x^n}{\sqrt{a^{2n}-x^{2n}}} = \frac{x x}{\sqrt{a^2-x^2}}$. Unde

in § 3. fit $z = \frac{x x}{\sqrt{a^2-x^2}}$; adeoque $z = a - \sqrt{a^2-x^2}$, quæ æquatio est ad Circulum diametro $AG = a$ descriptum, ut fieri debuit. Item pro n scripto 1, æquatio $z x - z x \times a^{n-1} = r x^n$ (§ 12.) migrat in hanc $z x - z x = r x$. Unde exterminando r ope æquationis $r r = x x + z z$, fit $\frac{2 z z x - x x z^2}{x^2} = -x$; adeoque regrediendo ad Fluentes $\frac{z z}{x} = -x + a$, quæ æquatio est ad Circulum diametro $AE = a$ descriptum, ut etiam fieri debuit.

III. *Extract of a Letter of Dr. Chr. Hunter, M.D. to Dr. J. Woodward, R. S. S. from Durham, giving an Account of a Roman Inscription, lately dug up in the North of England; with some Historical and Chronological Remarks thereon.*

THE Inscription which comes herewith, (*Fig. II.*) was dug up, two Years ago, in the *Roman CASTRUM*, near *Lanchester*: The Inscription is very legible, and gives me reason to hope, a Search after the first Fortifying this Place will not be unnecessary; especially, being able to fix the Time of *Gordian's* Repair-

Repairing this Fortrefs, to the 243d Year of Christ. We may reasonably ascribe the Foundation to the prudent Administration of *Julius Agricola*, in the Reign of *Fl. Vespasian*, about 169 Years before. In Confirmation of this, I find the following Particulars very material, and think it not unbecoming to begin my Enquiry with *Vespasian's* first Appearance upon the Theatre of Fame in *Britain*.

In the Second Year of the Emperor *CLAUDIUS*, *Ann. Dom.* 44. the *Romans* invaded *Britain*, under the Command of *Aulus Plautius*, in which Expedition *Vespasian* *, then Legate of the Second Legion, made a glorious Figure; having been engaged in no less than thirty Battels, and reduced two powerful Provinces, above twenty Towns, and the Isle of *Wight*. All these Successes, tho' continued with good Improvements in some of the following Years and Governments, could not frighten the Natives into an entire Submission; especially, no Advance being made into the Country of the *Brigantes*, till the Advancement of *Vespasian* to the Imperial Throne, about 26 Years after, *Ann. Dom.* 70. Then the whole Empire was deliver'd from the Miseries of *Nero's*, and the short but lamentable Devastations of the three succeeding Reigns: *Vespasian* then resolv'd to push on his begun Conquests in *Britain*; choice Armies, commanded by experienced Generals, are sent over; and the XX^h Legion, having in the preceding Troubles acted seditiously, (not without Difficulty) was reduced to submit to *Vespasian* (most of the Officers as well as Soldiers having been advanced by *Vitellius*). *Julius Agricola* is constituted Legate, who, under the Governour *Petilius Cerealis*, bore a considerable Share

* *Suetonius*, *Vespasian*, Cap. 4.

in the Successes against the *Brigantes*; * “ Sed primò
 “ *Cerealis* modò labores & discrimina, mox & gloriam
 “ communicabat: Sæpe parti Exercitus in experimen-
 “ tum, aliquando majoribus copiis ex eventu præfecit.
Tacitus afterwards in a few Words sums up the Whole
 of *Cerealis* his Acquisitions, † “ Terrorem statim intu-
 “ lit *Petilius Cerealis*, *Brigantum* Civitatem, quæ nu-
 “ merosissima Provinciæ totius perhibetur, aggressus;
 “ multa prælia, & aliquando non incruenta; magnam-
 “ que *Brigantum* partem aut victoria amplexus, aut
 “ bello. . . . Notwithstanding these Advantages, I dare not
 suppose the *Romans* to have then penetrated so far into
 this Province as our *Longovicum*, which is situate so
 near the Northern Bounds of the *Brigantes*, that at pre-
 sent it's not distant above twelve Miles from *Corbridge*,
 the Roman *Curia*, the chief Town of the adjoining Peo-
 ple the *Otadini*. I now advance to my principal Mo-
 tive, (I hope its Length may deserve Pardon, being un-
 der no Obligation to account for the Government of
Jul. Frontinus Successor to *Cerealis*) to fix upon the se-
 cond Year of *Julius Agricola*'s Government for this Work,
 which *Tacitus* thus describes, † “ Sed ubi *Ællas* adve-
 “ nit contracto Exercitu— loca Castris ipse capere,
 “ æstuaria ac sylvas ipse prætentare: & nihil interim
 “ apud Hostes quietum pati, quo minus subitis Excur-
 “ sibus popularetur; atque ubi satis terruerat, parcen-
 “ do rurius irritamenta Pacis ostentare. Quibus rebus
 “ multæ Civitates quæ in illum diem ex æquo egerant,
 “ datis Obsidibus iram posuere, & Præsidii Calte inf-
 “ que circumdata, tantâ ratione curâque, ut nulla an-
 “ tè *Britanniæ* nova pars illacessita transferit. This ex-
 cellent Conduct *Tacitus* further confirms from the Ob-

* *Tacit. Vit. Agric.* 8.

† Cap. 17.

‡ Cap. 20.

servation of Others. “ Adnotabant periti, non alium
 “ Ducem Opportunitates locorum sapientius legisse,
 “ nullum ab *Agricola* positum Castellum aut vi Ho-
 “ stium expugnatum, aut pactione aut fugâ delertum.

Agricola, this Summer, having quieted so large a
 Tract, and finished so many Fortresses, it cannot be ex-
 pected all should be built with the most exquisite Art,
 sufficient to perpetuate them. I proceed to *Gordian's*
 Repairs; whose Historian *Julius Capitolinus* having ne-
 ver once named *Britain*, yet giving so many Hints of
 the excellent Oeconomy of his Government, under the
 prudent Administration of his Father-in-Law *Mistheus*,
 I dare not fix this Work till the Third Year of his Reign,
 He having before been under the Direction of the Eu-
 nuchs and Officers of the Court, whom *Capitolinus*
 represents, in *Mistheus* his Letter to *Gordian*, to have
 prostituted all Employments to their own Covertness
 and mercenary Creatures.

Durham, July 5.

1717.