



58. For, those answering to the Radius 10 divided, are $\frac{SR}{\Sigma}$; (taking S in *Arithmetical* progression.)

59. And then, enlarging the Base (as in Fig. 8.) or the Tangent (as in Fig. 9.) in the proportion of the Tangent to the Sine.

$$S. \frac{SR}{\Sigma} (:: \Sigma. R) :: \frac{SR}{\Sigma} \cdot \frac{SR_2}{\Sigma_2} = \frac{SR_2}{R_2 - S_2}.$$

60. We have (by division) this Series,

$$R^2 S^2) SR^2 (S, + \frac{S_1}{R_2}, + \frac{S_5}{R_4}, + S + \frac{S_3}{R_2} + \frac{S_7}{R_4} + \frac{S_9}{R_6} + \frac{S_9}{R_8} \&c.$$

61. That is (putting $R=1$)

$$S + S^3 + S^5 + S^7 + S^9, \&c.$$

62. Which (multiplying the respective members by $\frac{1}{2}S, \frac{1}{4}S,$

$\frac{1}{8}S, \frac{1}{16}S, \frac{1}{32}S, \&c$) becomes

$$\frac{1}{2}S^2 + \frac{1}{4}S^4 + \frac{1}{8}S^6 + \frac{1}{16}S^8 + \frac{1}{32}S^{10}, \&c.$$

Which is the Aggregate of Tangents to the Arch who's right Sine is S.

63. And this method may be a pattern for the like process in other cases of like nature.

An Explanation of the Figures of Several Antiquities, communicated by a Member of the Royal Society.

FIG. 10, 11, 12, 13, 14, 15. *Res Turpiculae*, or *Præpi*, worn by Roman Children against Fascination.

16. An Ægyptian brass *Serapis*, or *Teraphim*.

17. A brass *Stilus Scriptorius*.

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18, 19. Old

18, 19. Old Roman Keys of brass; one being a Ring to wear on a Womans finger.

20. An Iron Die, or *Alea*.

21. A flat Iron Die, or *Talus*; upon the narrow sides are 6. 5. 2. and 1.

22. A Roman Iron Ring.

23. An old Roman brass Ring, marked XXXV, for a slave to wear.

24. A brass Roman Ear-Ring.

25. A brass *Lunula*, or *Meniscus*.

26. A brass *Fibula*.

27, 28, 29, 30, 31. Antient *Pasts*, or *Opaque Enamels* of divers colours, for Pavements; taken up at *Baia*.

The Figures 32, 33, 34. represent the *Cochineel Fly*, as seen on its belly by the help of the *Microscope*, and by the naked Ey, and as seen on its back thro' a *Microscope*; the Draughts of which were communicated by Dr *Tyson*, Fellow of the *Royal Society*.

A Letter from Mr. S^t Georg Ash, Sec. of the Dublin Society, to one of the Secretaries of the Royal Society; concerning a Girl in Ireland, who has several Horns growing on her Body.

Trin. Coll. the 10th of Octo. 1685.

Hon. Sir.

THE Account I here send of the *Horny Girl* is, much more imperfect then I hoped it would have been, both because its parents or friends, who might give some information of the beginning and occasion of the growing out of these *Horns*, are not to be found, and that the owner of this Monster would not be persuaded to let us take the figure thereof, which we design'd to present you.

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