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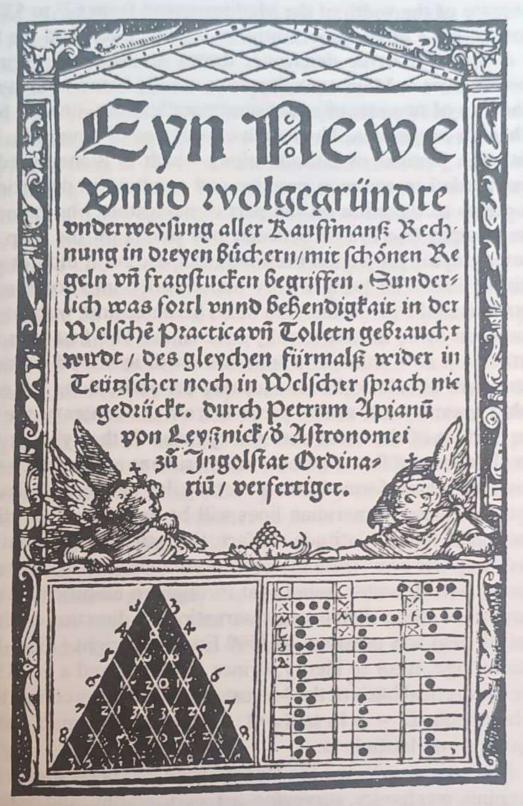
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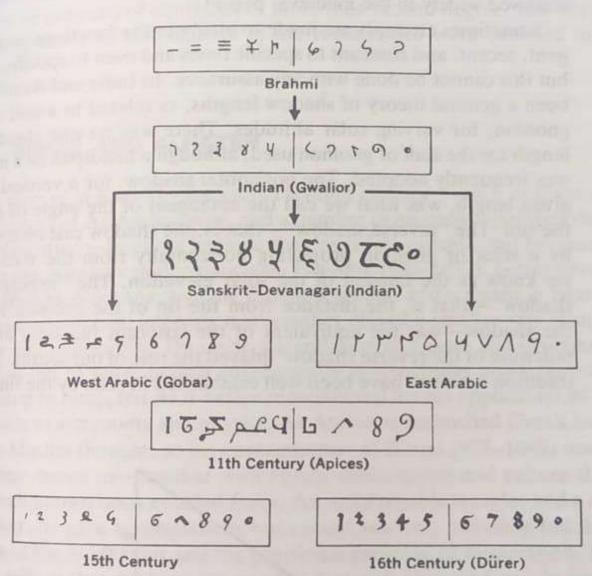
Autograph letter of Legendre. In some of his letters the form "Le Gendre" appears, as in this case. In general the name is spelled Legendre.



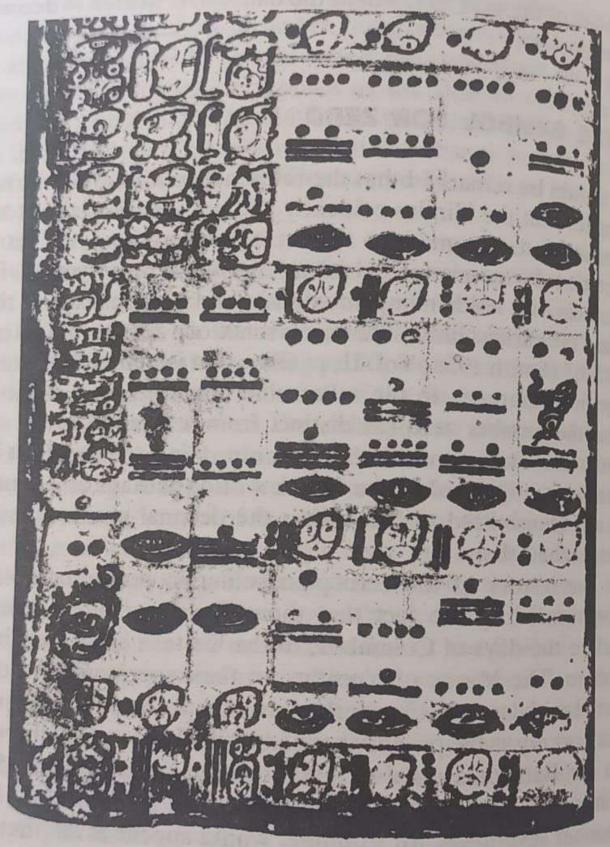
Pascal Triangle as first printed, 1527. Title page of the arithmetic of Petrus Apianus, Ingolstadt, 1527, more than a century before Pascal investigated the properties of the triangle.

13.12. ARABIC TRIGONOMETRY

As in numeration there was competition between systems of Greek and Indian origin, so also in astronomical calculations there were at first in Arabia two types of trigonometry—the Greek geometry of chords, as found in the Almagest, and the Hindu tables of sines, as derived through the Sindhind. Here, too, the conflict resulted in triumph for the Hindu aspect, and most Arabic trigonometry ultimately was built on the sine function. It was, in fact, again through the Arabs, rather than directly from the Hindus, that this trigonometry of the sine reached Europe. The astronomy of al-Battani (ca. 850–929), known in Europe as Albategnius, served as the primary vehicle of transmission, although Thabit ibn-Qurra seems to



Genealogy of our digits. Following Karl Menninger, Zahlwort und Ziffer (Göttingen: Vanderhoeck & Ruprecht, 1957-1958, 2 vols.), Vol. II, p. 233.



From the Dresden Codex, of the Maya, displaying numbers. The second column on the left from above down, displays the numbers 9, 9, 16, 0, 0, which stand for  $9 \times 144,000 + 9 \times 7200 + 16 \times 360 + 0 + 0 = 1,366,560$ . In the third column are the numerals 9, 9, 9, 16, 16 representing 1,364,360. The original appears in black and red colors. (Taken from Morld 1915, p. 266.)

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Facsimile of page in the famous diary of Gauss.