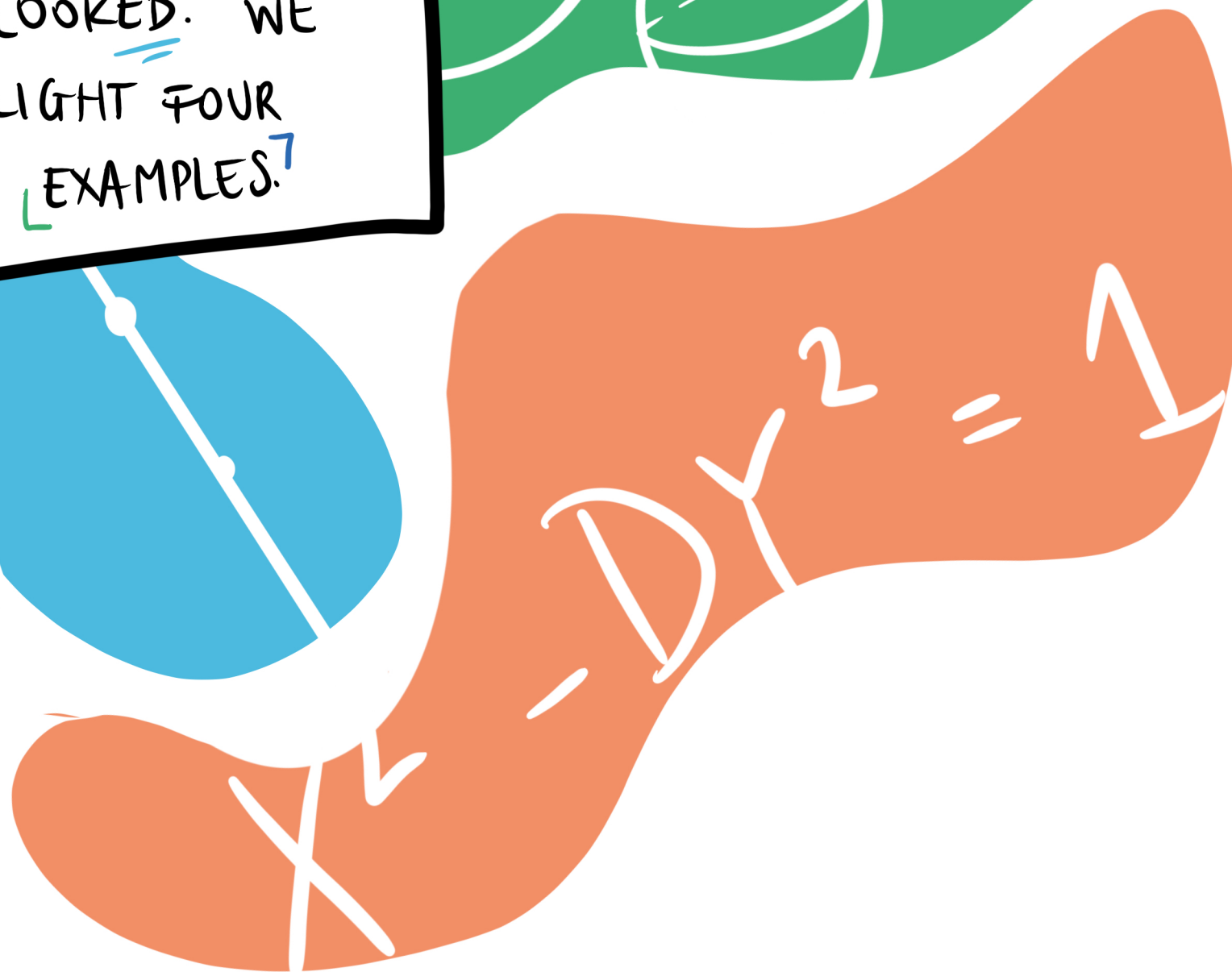
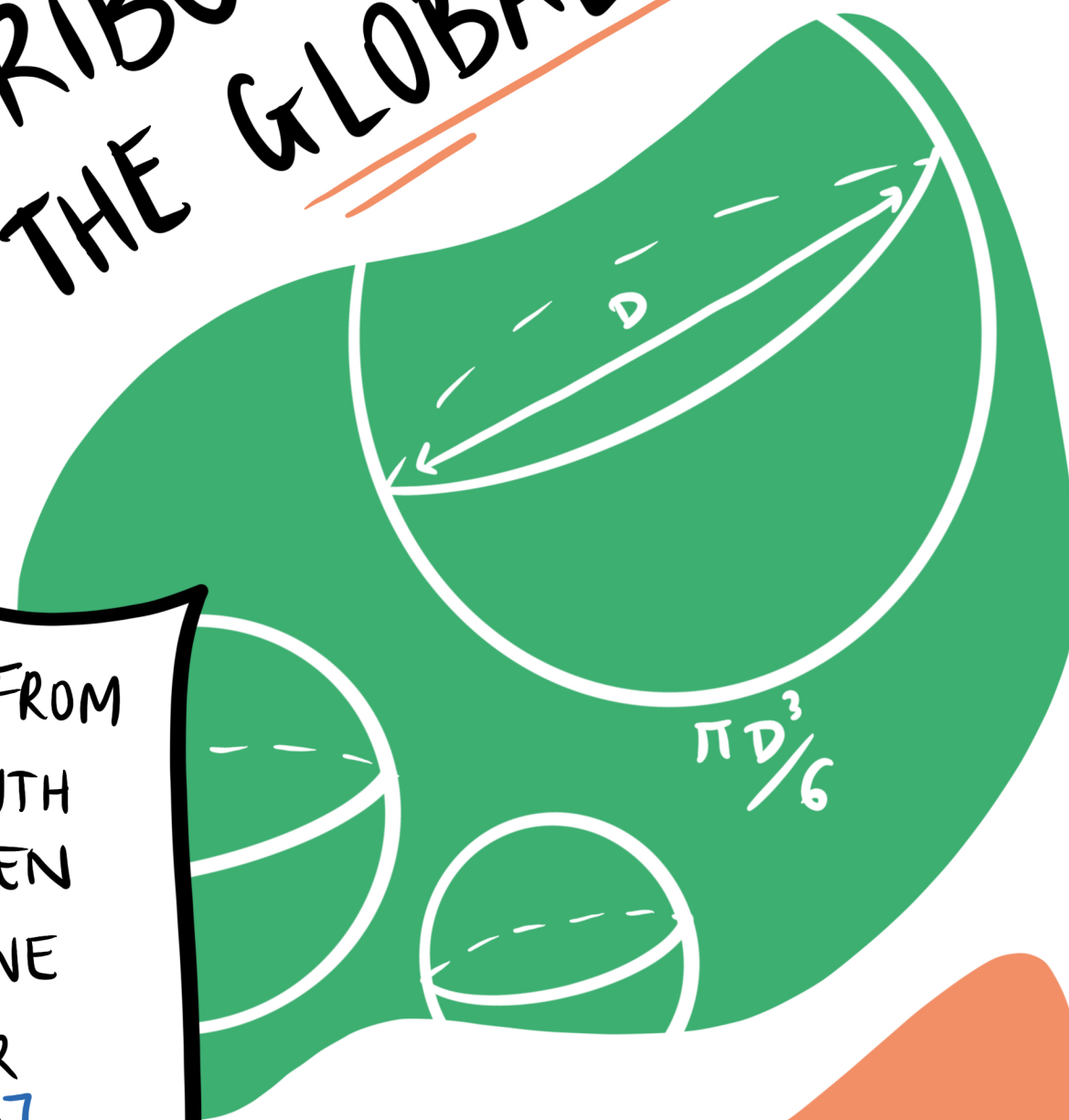
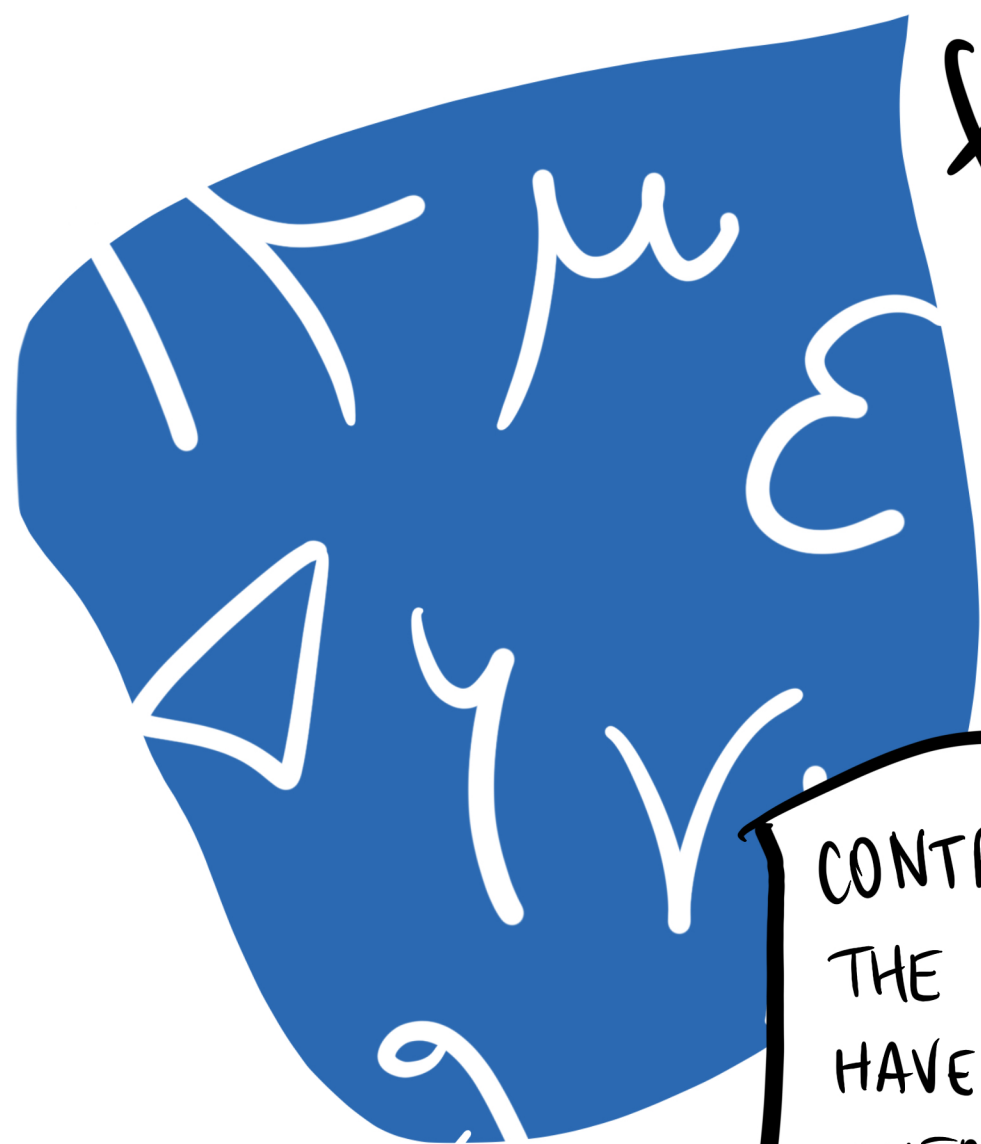


FORGOTTEN CONTRIBUTIONS FROM THE GLOBAL SOUTH

CONTRIBUTIONS FROM
THE GLOBAL SOUTH
HAVE OFTEN BEEN
OVERLOOKED. WE
HIGHLIGHT FOUR
EXAMPLES.⁷



QUIPU



record-keeping system

DEVELOPED IN THE CENTRAL ANDES

INFORMATION IS STORED

USING

TYPE OF KNOT

COLOUR

ORDER

USED TO RECORD

PAYMENTS

TAXES

CENSUS

MILITARY INFO

CALENDARS

USED BETWEEN

COULD ONLY BE READ BY QUIPUCAMAYOCS

1100 & 1532

mathematician

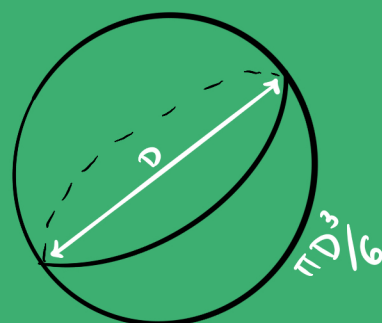
LIVED IN CHINA

WRITTEN WITH HIS SON!

(LOST) WORK:
ZHUI SHU

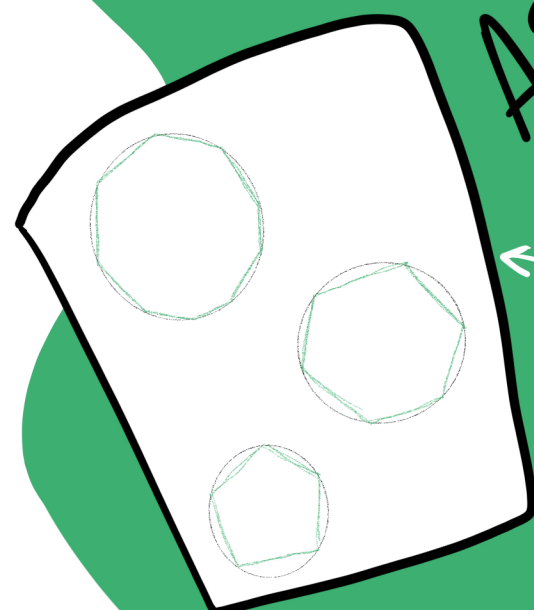
(METHODS FOR INTERPOLATION)

SAID TO CONTAIN FORMULA FOR VOLUME OF SPHERE



APPROXIMATED π BETWEEN
3.1415926 & 3.141592

MOST PRECISE
APPROXIMATION
FOR 900
YEARS!



USING POLYGONS
TO APPROXIMATE CIRCLES!

BORN IN 429 & DIED IN 500

ZU CHONGZHI



WHERE "ALGORITHM"
COMES FROM!

BORN IN 780 & DIED IN 850

AL-KHWARIZMI

mathematician & astronomer

WORKED IN BAGHDAD, IRAQ

WORKS:



AL-JABR

(820: THE

CALCULATION BY

COMPENDIOUS BOOK ON

COMPLETION AND BALANCING)

KITAB AL-JAM'

& KITAB AL-HISAB AL-HINDI

(ADDITION AND SUBTRACTION

IN INDIAN ARITHMETIC

& BOOK OF INDIAN
COMPUTATION)

TRANSLATED INTO
"LIBER ALGEBRAE ET
ALMUCABALA" & USED IN
ALL UNIVERSITIES

WHERE
"ALGEBRA"
COMES
FROM!



INTRODUCED
HINDU-ARABIC
NUMERALS
TO EUROPE!

٠ ١ ٢ ٣ ٤ ٥ ٦ ٧ ٨ ٩

$x^2 - dy^2 = 1$: PELL'S EQUATION

CONTAINS THE FIRST (ALMOST CORRECT) DEFINITION OF DIVISION!

PROVES IDENTITIES STILL USED IN NUMBER THEORY!

LATER CORRECTED BY BHASKARA

mathematician & astronomer
BRAHMAGUPTA

BORN 598 & DIED 668

WORKS:



BRAHMA-SPHUTA-SIDDHARTA
(628: CORRECTLY ESTABLISHED DOCTRINE OF BRAHMA)

KHANDAKHADYAKA
(665: EDIBLE BITE)



POSSIBLY LIVED

IN BHINMAL, INDIA

ALL OF THIS MATHEMATICS WAS BUILT FOR ASTRONOMY! ORBITS ECLIPSES ...