ARITHMETIC - Karpinski
24 Slides

1. HISTORY OF ARITHMETIC IN 24 SLIDES
2. EGYPTIAN CONTRIBUTIONS TO ARITHMETIC 2000 B.C.
3. BABYLONIAN CONTRIBUTIONS TO ARITHMETIC
4. GREEK CONTRIBUTIONS TO ARITHMETIC 600 B.C. TO 300 A.D.
5. ROMAN ARITHMETIC 200 B.C. TO 600 A.D.
6. NEW WORLD ARITHMETIC MAYAS AND PERUVIANS
7. HINDU CONTRIBUTIONS TO ARITHMETIC 400 A.D. TO 1600
8. ARABIC CONTRIBUTIONS TO ARITHMETIC 750-1500
9. LATIN AND HEBREW TRANSLATIONS OF ARABIC ARITHMETIC
10. THIRTEENTH CENTURY EUROPEAN ARITHMETICIANS
11. ARITHMETIC FOR THE PEOPLE -- MODERN LANGUAGES
12. TANGIBLE ARITHMETIC -- RECKONING WITH COUNTERS
13. FIRST COMPLETE PRINTED TEXTBOOK OF ARITHMETIC -- ITALY -- 1478
14. THE DEVELOPMENT OF PRINTED EUROPEAN ARITHMETICS
15. FIRST POPULAR ENGLISH ARITHMETIC -- THE GROUND OF ARTES-- RECORD
16. ARITHMETIC IN THE NEW WORLD --SPANISH-MEXICO-- 1556
17. SPREAD OF ARITHMETIC IN ENGLAND
18. ARITHMETIC CENTENARIANS--TEXTBOOKS THAT SURVIVED 100 YEARS
19. DEVELOPMENT OF DECIMAL FRACTIONS --STEVIN
20. SIMPLIFIED COMPUTATION -- LOGARITHMS -- NAPIER
21. POPULAR ENGLISH ARITHMETICS USED IN ENGLAND AND ENGLISH AMERICA IN 17th & 18th CENTURIES
22. FIRST PRINTED ENGLISH ARITHMETIC OF THE NEW WORLD --BRADFORD
23. EARLY AMERICAN ARITHMETICS -- PIKE
24. AMERICAN PRACTICAL ARITHMETIC
25. 19th CENTURY AMERICAN ARITHMETICS

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Karpinski
24 Slides

# ALGEBRA

1. ALGEBRA
2. EGYPTIAN CONTRIBUTIONS TO ALGEBRA ABOUT 4000 YEARS AGO
3. BABYLONIAN CONTRIBUTIONS TO ALGEBRA
4. GREEK ALGEBRAICAL DEVELOPMENTS -- PYTHAGOREAN -- 600 TO 300 B.C.
5. GREEK CONTRIBUTIONS TO ALGEBRA, THE PENTAGON --THE GOLDEN MEAN
6. CONTRIBUTIONS TO ALGEBRA OF THE GREEKS 320 B.C. TO 250 B.C.
7. HINDU CONTRIBUTIONS TO ALGEBRA--SYSTEMATIC TEXTBOOKS OF ALGEBRA
8. INDIA'S CROWNING ACHIEVEMENT IN ALGEBRA--LINEAR INDETERMINATE EQUATIONS
9. ARABIC CONTRIBUTIONS TO ALGEBRA --AL-KHOWARIZMI-- 825 A.D.
10. ARABIC CONTRIBUTIONS TO ALGEBRA--ABU KAMIL--925 A.D. OMAR KHAYYAM
11. EUROPEAN TRANSLATIONS OF ARABIC ALGEBRA
12. THIRTEENTH CENTURY EUROPEAN ALGEBRAS -- LEONARD OF PISA
13. PROGRESS OF ALGEBRA IN EUROPE -- 1300-1500 A.D.-- UNIVERSITIES
14. FIRST PRINTED TEXTBOOK ON ALGEBRA--1494-- PACIOLI
15. SOLUTION OF THE CUBIC AND BIQUADRATIC -- ALGEBRAICAL DEVELOPMENTS
16. SIXTEENTH CENTURY EUROPEAN ALGEBRA -- RECORD
17. THE DISCOVERY OF LITERAL SYMBOLISM VIETA--PARIS-- 1591
18. THE SPREAD OF LITERAL SYMBOLISM IN CONTINENTAL EUROPE--DESCARTES--LEIBNIZ
19. SPREAD OF LITERAL SYMBOLISM IN ENGLAND--HARRIOT--OUGHTRED--WALLIS NEWTON
20. IMPORTANT ALGEBRAS OF THE TRANSITION PERIOD 1663-1706 BRASSER--STURM--ALEXANDER--JONES
21. DEVELOPMENTS CRYSTALLIZED BY NEWTON--BINOMIAL THEOREM--GENERALIZED EXPONENTS
22. ALGEBRAICAL DEVELOPMENTS 1700-1800--CONTINUED FRACTIONS--DETERMINANTS
23. EXTENSIONS OF THE ALGEBRAIC NUMBER FIELD--COMPLEX NUMBERS
24. FIFTH AND HIGHER DEGREE EQUATIONS--ABEL, GALOIS
25. POPULAR NINETEENTH CENTURY AMERICAN ALGEBRAS - Extra ??

Reference D E Smith History of Mathematics
F Cajori, History of Mathematics

GEOMETRY AND TRIGONOMETRY

24 Slides — Karpenski

1. TITLE
2. EGYPTIAN CONTRIBUTIONS TO GEOMETRY, 2000 B.C. TO 200 B.C.
3. BABYLONIAN CONTRIBUTIONS TO GEOMETRY AND TRIGONOMETRY
4. GREEK CONTRIBUTIONS TO GEOMETRY 600 B.C. TO 450 B.C.
5. THE INFINITESIMAL, 450 TO 350 B.C.
6. GREEK CONTRIBUTIONS TO GEOMETRY, REGULAR POLYGONS--PYTHAGORAS--PLATO
7. GREEK DEVELOPMENT OF LOGICAL GEOMETRY 320 B.C. -- EUCLID
8. GREEK PROGRESS GEOMETRY AND TRIGONOMETRY 287-212 B.C.--ARCHIMEDES
9. GREEK PROGRESS GEOMETRY, TRIGONOMETRY 280 B.C.--100 A.D.
10. GREEK ADVANCE IN TRIGONOMETRY, PTOLEMY'S ALMAGEST
11. HINDU GEOMETRY AND TRIGONOMETRY, SINE FUNCTION
12. ARABIC GEOMETRY AND TRIGONOMETRY 750 A.D. TO 1000 A.D.
13. ARABIC PROGRESS IN TRIGONOMETRY 1000 A.D. 1250-1454 A.D.
14. ARABIC--HINDU--GREEK TRANSLATIONS
15. THIRTEENTH CENTURY PROGRESS IN EUROPE--LEONARD OF PISA
16. PROGRESS OF TRIGONOMETRY IN EUROPE 1300 A.D. -- 1500 A.D.
17. PRINTED EUCLIDS
18. PRACTICAL GEOMETRY TEXTS
19. EUROPEAN DEVELOPMENT OF TRIGONOMETRY -- RHETICUS -- VIETA
20. TWO IMPORTANT TRIGONOMETRIES--CAVALERIUS--GELLIBRAND
21. OPUS PALATINUM--1596--RHETICUS
22. TRIGONOMETRY--PITISCUS--VANCEULEN--KEPLER--WING Made by G.K. Swan
23. PROGRESS OF TRIGONOMETRY--1585-1748--LOGARITHMS--IMAGINARIES
24. REGULAR POLYGON -- 17 SIDES -- GAUSS
25. GEOMETRY COMES OF AGE--NON EUCLIDEAN GEOMETRY
26. AMERICAN GEOMETRIES

References; D.E. Smith, History of Mathematics
F. Cajori, History of Mathematics

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