

Chapter 12 – The Latin West

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I. Cultural Invocation

- **Civilization:** Latin Christendom (Frankish, Carolingian, Italian, English, Iberian, Parisian, Papal)
- **Time Period:** c. 500–1450 AD
- **Figures:** Boethius (quadrivium, transmission), Isidore of Seville (encyclopedism), Gerbert of Aurillac (abacus, numerals), Adelard of Bath (translation, Euclid), Fibonacci (Liber Abaci, sequence), Jordanus Nemorarius (letters, mechanics), Nicole Oresme (graphs, series, exponents)

In the Latin West, mathematics did not rise from triumph — It rose from ruin.

The empire had fallen. The libraries were ash. The language of proof lay buried in forgotten scripts.

Yet the monks copied. The friars taught. The merchants calculated.

At first, they remembered only fragments — Boethius' definitions, Isidore's divisions, the abacus, the fingers, the stars.

But memory became method.

Through Spain and Sicily, Arabic numerals crossed into Latin ink. Through Fibonacci, algebra entered the counting house.

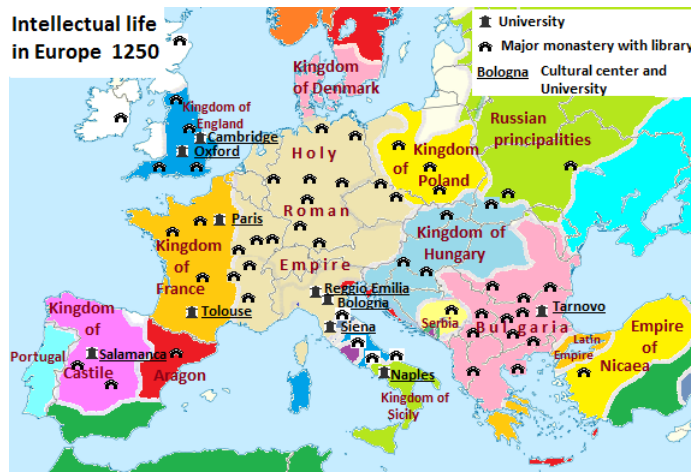
Through Jordanus and Campanus, Euclid spoke once more. Through Oresme, the curve became concept — the infinite, measurable.

*The West did not create mathematics anew. It **reassembled** it. Piece by piece, parchment by parchment, they restored the language of number.*

It was not brilliance, but fidelity, that preserved the flame.

This was not the mathematics of power. This was the mathematics of survival.

And it made the Renaissance possible.



II. Faces of the Era

Boethius (c. 480–524 CE)

The Quadrivium and Transmission of Greek Thought

Boethius preserved fragments of Greek mathematical thought during the early collapse of Roman institutions. His treatises on arithmetic and geometry, though basic, defined the quadrivium: arithmetic, geometry, music, and astronomy — a structure that endured for centuries in monastic education.

Isidore of Seville (c. 560–636 CE)

Etymologiae and Medieval Compendia

A compiler of vast encyclopedic knowledge, Isidore's *Etymologiae* included a section on mathematics. Though lacking in rigor, it preserved Roman definitions and structure, ensuring that number and proportion remained in the memory of the West.

Gerbert of Aurillac (Pope Sylvester II) (c. 946–1003 CE)

Abacus and Early Use of Hindu-Arabic Numerals

Educated in Spain and Italy, Gerbert taught arithmetic using a counting board and possibly Hindu-Arabic digits — centuries ahead of their widespread use. He exemplifies the blend of ecclesiastical power and mathematical curiosity in the early Holy Roman Empire.

Adelard of Bath (c. 1075–1160 CE)

Translation of Euclid and Arabic Knowledge

Adelard journeyed through the Islamic world and returned with translations of astronomical tables and Euclid's *Elements*. He helped transfer the intellectual legacy of Arabic science to Latin Europe, laying groundwork for future formal education in geometry.

Fibonacci (Leonardo of Pisa) (c. 1170–1250 CE)

Liber Abaci and Introduction of Hindu-Arabic Arithmetic

Fibonacci's *Liber Abaci* (1202) introduced the Hindu-Arabic numeral system to a Latin commercial audience. Its problems in currency, interest, and trade made mathematics immediately relevant — and its rabbit sequence entered mathematical folklore.

Liber Quadratorum and Number Theory

In his later work, Fibonacci explored indeterminate problems and quadratic identities, often inspired by Diophantus and Islamic sources. This marked one of the earliest examples of original mathematical development in the Christian West.

Jordanus Nemorarius (c. 1225–1260 CE)

Letter-Based Arithmetic and Ratio Theory

Jordanus used letters to express general arithmetical rules — anticipating symbolic algebra. His *Arithmetica* and *De numeris datis* emphasized logical clarity and generality in number manipulation.

Statics and the Law of the Inclined Plane

In *De ratione ponderis*, Jordanus formulated a correct law of the inclined plane using proportional reasoning — a precursor to later physics.

Campanus of Novara (fl. c. 1260 CE)**Translation and Consolidation of Euclid**

Campanus produced the most authoritative medieval edition of Euclid's *Elements*, synthesizing Latin and Arabic sources. His version became the standard text into the Renaissance.

Nicole Oresme (c. 1323–1382 CE)**Graphical Analysis and the Merton Rule**

Oresme pioneered the graphical representation of change — using a velocity-time diagram to justify the mean velocity theorem. This visual approach prefigured ideas central to calculus.

Infinite Series and Divergence of the Harmonic Series

He provided geometric demonstrations for convergent series like $\sum \frac{n}{2^n} = 2$, and proved the divergence of the harmonic series using grouped comparisons.

Compound Proportions and Rational Powers

Oresme's use of labeled squares to model fractional exponents (like $x^{3/2}$) shows an advanced grasp of abstract relationships between magnitude and proportion — centuries before exponents became symbolic.

III. Works of the Era

Boethius — *De Institutione Arithmetica* (c. 500 CE)

Definition-Based Arithmetic in the Roman Tradition

Based largely on Nicomachus of Gerasa, this text codified number theory into simple definitions and properties, emphasizing even/odd, prime/composite, and perfect numbers. It served as a mathematical cornerstone for centuries in Latin Europe despite its lack of proofs.

Framing the Quadrivium

Boethius outlined the four mathematical arts — arithmetic, geometry, music, and astronomy — as integral to liberal education, preserving a Platonic-Pythagorean hierarchy of knowledge.

Isidore of Seville — *Etymologiae* (c. 630 CE)

Mathematics as Lexical Memory

Book III of this encyclopedic text defined basic mathematical concepts for monastic scribes. Though derivative and etymological, it ensured continuity of terminology and preserved Roman frames of mathematical classification.

Adelard of Bath — *Elements of Euclid* (trans. c. 1120–1142 CE)

Earliest Latin Translation of Euclid from Arabic Sources

Adelard's work brought the structure of Euclidean geometry back into Western thought via Arabic intermediaries. It reintroduced deductive reasoning in geometry to Latin education, though its impact became widespread only in the following century.

Fibonacci — *Liber Abaci* (1202, revised 1228 CE)

Introduction of Hindu-Arabic Numerals to Latin Commerce

This work explained place-value notation and arithmetic operations using Hindu-Arabic digits. It applied these techniques to business, weights, currencies, and partnerships — embedding arithmetic into mercantile reality.

Development of Recursive Sequences

The book contains the famous rabbit-pair problem, which generates the sequence now named after Fibonacci:

$$F_n = F_{n-1} + F_{n-2}$$

Fibonacci — *Liber Quadratorum* (c. 1225 CE)

Number Theory and Diophantine Techniques

This text explores indeterminate equations and identities such as:

$$(a^2 + b^2)(c^2 + d^2) = (ac + bd)^2 + (ad - bc)^2$$

Fibonacci investigates square decompositions and rational solutions — building on Greek and Islamic traditions.

Jordanus Nemorarius — *Arithmetica* (c. 1230 CE)**Letter-Based Arithmetic and General Theorems**

This work introduced the use of letters to denote general numbers, enabling abstract rules of arithmetic — a vital step toward symbolic algebra.

Jordanus Nemorarius — *De ratione ponderis* (c. 1235 CE)**Statics and Early Mechanics**

Jordanus presents a correct rule for the inclined plane: force along the slope is proportional to the vertical height. This is one of the earliest quantitative treatments of physical equilibrium in the West.

Campanus of Novara — *Elements of Euclid* (compiled c. 1260 CE)**Standard Medieval Euclid Edition**

This authoritative version, synthesizing Adelard's and Arabic sources, became the dominant Euclid in Western Europe — cited and reprinted well into the Renaissance.

Nicole Oresme — *Algorismus proportionum* (c. 1350–1360 CE)**Rules for Compound Proportions and Rational Powers**

This text offers verbal and diagrammatic representations of powers such as $x^{3/2}$, called “one and one-half proportion.” It explores fractional multiplication using geometric partitioning.

Nicole Oresme — *De latitudinibus formarum* (c. 1355–1361 CE)**Graphical Representation of Variable Change**

Oresme introduces diagrams for speed, time, and intensity — anticipating Cartesian graphs. He shows that uniform acceleration yields a triangular area, giving rise to the Merton Rule.

Geometric Proof of Series Convergence and Divergence

He evaluates series like:

$$\sum_{n=1}^{\infty} \frac{n}{2^n} = 2, \quad \sum_{n=1}^{\infty} \frac{3n}{4^n} = \frac{4}{3}$$

and proves the divergence of $\sum \frac{1}{n}$ using grouped lower bounds.

IV. Historical Overview

The mathematical awakening of the Latin West was not born of invention, but of convergence — a slow, uneven assimilation of number systems, instruments, and philosophical inheritances.

1. The Spread of Hindu-Arabic Numerals

The Hindu-Arabic numeral system, with its base-10 structure and positional zero, reached the Latin West by way of Arabic treatises. It did not arrive cleanly — it trickled in.

- **Early Hints (10th c.):** A Spanish copy of Isidore's *Etymologiae* (c. 992) includes nine numerals — but no zero.
- **Gerbert of Aurillac (c. 1000):** Possibly used an abacus with Arabic apices. His exact knowledge remains debated.
- **Fibonacci (1202):** The *Liber Abaci* gave systematic treatment to Hindu-Arabic numerals, advocating their use in trade and everyday reckoning.

Despite these appearances, the system faced cultural resistance for centuries. The positional value of a zero was conceptually foreign, and the script unfamiliar. It would take the practical victories of the algorists — and eventually the printing press — to seal its adoption.

2. Algorists and Abacists: A Two-Century Rivalry

Once Hindu-Arabic digits entered Latin arithmetic, they spawned a rivalry: **Algorists** — who used pen-and-paper algorithms — versus **Abacists** — who relied on counters and traditional methods.

- **Abacists** used counting boards, Roman numerals, and physical manipulation.
- **Algorists** embraced written calculations, place-value notation, and eventually algebraic reasoning.
- **Notable Algorists:** Sacrobosco (*Algorismus vulgaris*), Alexandre of Villedieu (*Carmen de Algorismo*), Fibonacci.

The conflict was not merely methodological — it was institutional and pedagogical. Merchant schools trained abacists. Universities and clerics trained algorists.



A woodcut from Gregor Reisch, *Margarita Philosophica* (Freiburg, 1503). Arithmetic is instructing the algorist and the abacist, here inaccurately represented by Boethius and Pythagoras.

Figure 1: Woodcut from the *Margarita Philosophica* (1503): Arithmetic instructs algorist and abacist

For over 200 years, both systems coexisted. Only in the 16th century did the algorist method, aided by the press and symbolic algebra, finally prevail.

3. Aristotle in the Latin West: What Was Kept, What Was Recast

When Greek mathematics returned to Latin Europe — via Arabic translations — it came wrapped in Aristotle. But the Latin Scholastics adopted Aristotle selectively, reshaping his framework to serve Christian metaphysics and emerging science.

- **Kept:**

- The theory of proportion (from *Elements* V, filtered through Aristotle's logic)
- The distinction between potential and actual infinity
- The categorization of forms, causes, and motion

- **Modified:**

- Motion was redefined: The Merton School and Oresme introduced quantification and mean speed — which Aristotle never formalized
- Infinity was cautiously explored: Oresme and others treated series as summable without metaphysical commitment

- **Discarded or Challenged:**

- Aristotle's rejection of the vacuum and inertia
- His linear theory of motion speed (proportional to force/resistance)
- His disdain for applied mathematics as inferior to natural philosophy

In the end, Aristotle served as both foundation and foil. The Scholastics debated him, extended him, and quietly surpassed him — especially in kinematics and proto-calculus.

V. Problem–Solution Cycle

Problem 1: Fibonacci’s Exchange Puzzle (c. 1202 CE)

Statement. If 1 solidus imperial (12 deniers imperial) is worth 31 deniers Pisan, how many deniers Pisan should one obtain for 11 deniers imperial?

Solution. Apply proportional reasoning:

$$\frac{12}{31} = \frac{11}{x} \Rightarrow 12x = 341 \Rightarrow x = \frac{341}{12} = 28\frac{5}{12}$$

Answer. $28\frac{5}{12}$ deniers Pisan.

Problem 2: Fibonacci's Rabbit Sequence (c. 1202 CE)

Statement. Beginning with one pair of rabbits, and assuming each pair produces a new pair every month starting from their second month, how many pairs exist after one year?

Solution. The Fibonacci sequence is defined recursively:

$$F_1 = 1, \quad F_2 = 1, \quad F_n = F_{n-1} + F_{n-2}$$

Compute through month 12:

$$F_{12} = 144$$

Answer. 144 pairs of rabbits after 12 months.

The Fibonacci Sequence

Much of the *Liber abaci* makes dull reading, but some of the problems were so lively that they were used by later writers. Among these is a hardy perennial that may have been suggested by a similar problem in the Ahmes Papyrus. As expressed by Fibonacci, it read,

Seven old women went to Rome; each woman had seven mules; each mule carried seven sacks, each sack contained seven loaves; and with each loaf were seven knives; each knife was put up in seven sheaths.

Without doubt, the problem in the *Liber abaci* that has most inspired future mathematicians was the following:

How many pairs of rabbits will be produced in a year, beginning with a single pair, if in every month each pair bears a new pair which becomes productive from the second month on?



Fibonacci

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This celebrated problem gives rise to the "Fibonacci sequence" 1, 1, 2, 3, 5, 8, 13, 21, ..., u_n, \dots , where $u_n = u_{n-1} + u_{n-2}$, that is, where each term after the first two is the sum of the two terms immediately preceding it. This sequence has been found to have many beautiful and significant properties. For instance, it can be proved that any two successive terms are relatively prime and that $\lim_{n \rightarrow \infty} u_{n-1}/u_n$ is the golden section ratio $(\sqrt{5} - 1)/2$. The sequence is also applicable to questions in phyllotaxy and organic growth.

Figure 2: Fibonacci's rabbit-pair problem and recursive solution in the *Liber Abaci* (c. 1202)

Problem 3: Campanus–Jordanus Angle Trisection (c. 1250 CE)

Statement. Describe the method attributed to Campanus and Jordanus for trisecting angle $\angle AOB$.

Solution. Construct the following:

- Let $OA = OB$
- Draw a radius $OC \perp OB$
- Through point A , draw line AED so that $DE = OA$
- Draw line $OF \parallel AED$

Then:

$$\angle FOB = \frac{1}{3} \angle AOB$$

Answer. Trisection achieved by auxiliary geometric construction.

Let the angle AOB that is to be trisected be placed with its vertex at the center of a circle of any radius $OA = OB$ (Fig. 12.1). From O draw a radius $OC \perp OB$, and through A place a straight line AED in such a way that $DE = OA$. Finally, through O draw line OF parallel to AED . Then, $\angle FOB$ is one-third $\angle AOB$, as required.

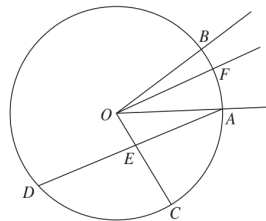


FIG. 12.1

Figure 3: Circle diagram showing angle $\angle AOB$ trisected via Campanus method (c. 1250)

Problem 4: Oresme's Mean Velocity Rule (c. 1350 CE)

Statement. Show that the distance under uniform acceleration equals the distance traveled under constant motion at average velocity.

Solution. A velocity-time triangle represents constant acceleration:

$$\text{Area} = d = \frac{1}{2}tv = \left(\frac{v}{2}\right)t$$

Thus, average velocity yields the same distance.

Answer. Merton Rule holds: distance equals average velocity times time.

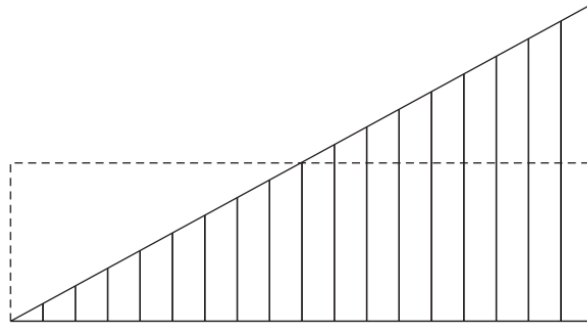


Fig. 12.2

Figure 4: Right triangle segmented by base; area equals mean velocity \times time (c. 1350)

Scholastic Note: Infinity as Potential and Actual

Medieval Scholastics inherited the paradoxes of infinity from Aristotle — but extended them with philosophical nuance.

- **Infinity as Potential (*infinitum potentiale*):** A quantity is infinite if it can always be increased, but is never completed. Example: The counting numbers — always one more to be added.
- **Infinity as Actual (*infinitum actuale*):** A quantity treated as a completed infinite totality. Rarely accepted by strict Aristotelians, but subtly invoked by Oresme and others when reasoning about total change, infinite series, or divine attributes.

For most Schoolmen, infinity existed in God, but only potential in nature. Oresme's work nudged this boundary — treating infinite processes as geometrically summable, if not metaphysically complete.

Problem 5: Oresme's Harmonic Series Divergence (c. 1360 CE)

Statement. Show that the harmonic series diverges:

$$\sum_{n=1}^{\infty} \frac{1}{n}$$

Solution. Oresme grouped the terms:

$$\left(\frac{1}{2}\right), \quad \left(\frac{1}{3} + \frac{1}{4}\right), \quad \left(\frac{1}{5} + \cdots + \frac{1}{8}\right), \dots$$

Each group sums to more than $\frac{1}{2}$, implying the series grows without bound.

Answer. The harmonic series diverges by lower bounding each group.

Mathematicians of the Western world in the fourteenth century had imagination and precision of thought, but they lacked algebraic and geometric facility; hence, their contributions lay not in extensions of classical work but in new points of view. Among these was an occupation with infinite series, an essentially novel topic in the West anticipated only by some ancient iterative algorithms and Archimedes' summation of an infinite geometric progression. Where the Greeks had a *horror infiniti*, the late medieval Scholastic philosophers frequently referred to the infinite, both as a potentiality and as an actuality (or something "completed"). In England in the fourteenth century, a logician by the name of Richard Suiseth (fl. ca. 1350), but better known as Calculator, solved the following problem in the latitude of forms:

If throughout the first half of a given time interval a variation continues at a certain intensity, throughout the next quarter of the interval at double this intensity, throughout the following eighth at triple the intensity and so ad infinitum; then the average intensity for the whole interval will be the intensity of the variation during the second subinterval (or double the initial intensity).

This is equivalent to saying that $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \cdots + \frac{1}{2^n} + \cdots = 2$.

Calculator gave a long and tedious verbal proof, for he did not know about graphical representation, but Oresme used his graphical procedure to prove the theorem more easily. Oresme also handled other cases, such as

$$\frac{1 \cdot 3}{4} + \frac{2 \cdot 3}{16} + \frac{3 \cdot 3}{64} + \cdots + \frac{n \cdot 3}{4^n} + \cdots$$

in which the sum is $\frac{3}{2}$. Problems similar to these continued to occupy scholars during the next century and a half.

Among Oresme's other contributions to infinite series was his proof that the harmonic series is divergent. He grouped the successive terms in the series

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7} + \frac{1}{8} + \cdots + \frac{1}{n} + \cdots,$$

placing the first term in the first group, the next two terms in the second group, the next four terms in the third group, and so on, the m th group containing 2^{m-1} terms. Then, it is obvious that we have infinitely many groups and that the sum of the terms within each group is at least $\frac{1}{2}$. Hence, by adding together enough terms in order, we can exceed any given number.

Figure 5: Oresme's visual grouping proof for divergence of the harmonic series (c. 1360)

Problem 6: Oresme's "One and One-Half Proportion" Diagram (c. 1360 CE)

Statement. In his *Algorismus proportionum*, Nicole Oresme represented compounded proportions using geometric diagrams. One such figure depicts a square subdivided into labeled parts: p , 1, 1, and 2, symbolizing the "one and one-half proportion."

Explain how this square is constructed, what the labels mean, and how the overall expression corresponds to an early notion of irrational exponentiation.

Solution.

Oresme begins with a unit square — the whole represents a **base quantity**, such as a velocity or intensity.

He then subdivides the square into **four regions**, each corresponding to a proportional component of an operation:

1. The top-left square is labeled p — representing the base proportion.
2. The top-right and bottom-left squares are labeled 1 — representing single proportions.
3. The bottom-right is labeled 2 — representing a compound or enhanced proportion.

This subdivision expresses a **compound proportion** built from combining a square root (half proportion) and a cube (triple proportion):

$$\text{"One and one-half proportion"} = (\sqrt{x})^3 = x^{3/2}$$

Geometrically, the square represents the logical structure of: - A base x , - Raised first to the $1/2$ power (square root), - Then cubed.

Oresme lacked modern notation, so he built conceptual understanding through spatial partitioning.

Answer. The square decomposes the "one and one-half proportion" — or $x^{3/2}$ — into labeled parts, visualizing the compounding of a square root and a cube via proportion geometry.

Nicole Oresme lived later than Bradwardine, and in the work of the former, we see extensions of ideas of the latter. In *De proportionibus proportionum*, composed about 1360, Oresme generalized Bradwardine's proportion theory to include any rational fractional power and to give rules for combining proportions that are the equivalents of our laws of exponents, now expressed in the notations $x^a \cdot x^b = x^{a+b}$ and $(x^a)^b = x^{ab}$. For each rule, specific instances are given, and the latter part of another work, the *Algorismus proportionum*, applies the rules in geometric and physical problems. Oresme also suggested the use of special notations for fractional powers, for in his *Algorismus proportionum* there are expressions such as

p	1
1	2

to denote the "one and one-half proportion," that is, the cube of the principal square root, and forms such as

$$\frac{1 \cdot p \cdot 1}{4 \cdot 2 \cdot 2}$$

for $\sqrt[4]{24}$. We now take for granted our symbolic notations for powers and roots, with little thought for the slowness with which these developed in the history of mathematics. Even more imaginative than Oresme's notations was his suggestion that irrational proportions are possible. Here, he was striving toward what we should write as $x^{3/2}$, for example, which is perhaps the first hint in the history of mathematics of a higher

Figure 6: Oresme's square diagram illustrating a "one and one-half proportion" or $x^{3/2}$ (c. 1360)

VI. Decline and Disruption: The Fall from the Scholastic High Point

The Latin West reached a mathematical crescendo in the 13th and 14th centuries. Fibonacci systematized calculation. Jordanus and Campanus formalized number and geometry. Oresme introduced time, change, and infinitude into medieval diagrams.

But the surge was not sustained. What followed was not progress — but collapse.

I. The Black Death (1347–1351)

The plague swept through Europe with devastating speed. It is estimated that up to 50% of the population perished in less than five years.

- Centers of learning — monastic libraries, cathedral schools, universities — lost faculty, scribes, and students.
- Mathematical manuscripts ceased to be copied; some were never replaced.
- Entire intellectual lineages vanished in a generation.

II. The Mongol Invasions (13th–14th c.)

Though primarily felt in the East, the Mongol invasions disrupted the scholarly trade routes that had carried Arabic, Persian, and Indian mathematical works into Europe.

- The destruction of Baghdad (1258) ended the Abbasid Caliphate and scattered scholars.
- The House of Wisdom, a cornerstone of transmission, was reduced to ash.
- The fragile bridges between Latin and Islamic scholarship were shaken.

III. Hundred Years' War and Wars of the Roses (1337–1453, 1455–1487)

In France and England — two intellectual powerhouses of the High Middle Ages — dynastic warfare consumed institutional resources and disrupted university life.

- Oxford, Paris, and Cambridge suffered from shifting royal priorities and damaged endowments.
- Clerics and scholars were conscripted, displaced, or silenced.
- Investment in speculative learning waned in favor of theology and law.

IV. Institutional Inertia and Lingering Suspicion

Even before the crisis, many clergy remained wary of Hindu-Arabic numerals and abstract reasoning.

- Algorithm competed with abacism for two centuries.
- Algebra remained mostly rhetorical — symbolic expression would not arise until the Renaissance.
- Mathematics, unlike theology or philosophy, lacked institutional champions.

Conclusion: A Flicker, Not a Flame

Medieval mathematics did not end in disgrace — it ended in fragmentation. The high synthesis of Oresme and Fibonacci was not transmitted to apprentices — it was buried in libraries and eclipsed by plague, war, and politics.

It would take the Renaissance — and print — to dig these texts back up.

And when they were rediscovered, it would not be monks but merchants, artisans, and humanists who would relight the flame.

VII. Closing Dialectic

Summary

In the Latin West, mathematics was not discovered — it was *resurrected*.

From Roman collapse and monastic silence, a scattered inheritance was reassembled.

- Greek definitions were not understood — they were copied in faith.
- Arabic numerals were not trusted — they were tested in trade.
- Algebra was not taught in academies — it was smuggled into merchant ledgers.
- And infinity was not grasped — it was sketched, hesitantly, by candlelight.

They gave us the Fibonacci sequence — not as myth, but as model.

They gave us unit fractions — not for beauty, but for bookkeeping.

They gave us coordinates — not to map stars, but to measure change.

Latin mathematics was a mirror of its world:

Fragmented, faithful, practical — a lattice of memory rather than a monument of theory.

Comparative Mathematical Cosmologies

Greek: Number as essence. Mathematics as ideal. The infinite as paradox.

Islamic: Number as structure. Mathematics as inheritance. The infinite as solved.

Latin: Number as memory. Mathematics as survival. The infinite as suggestion.

Each world did not merely receive mathematics —

It *translated* it into the language of its needs, fears, and faith.

Exit Prompt

You are Fibonacci. Or Jordanus. Or a silent monk in Reichenau with one scroll left to copy.

You do not know if what you write will be read.

But you write anyway.

No symbols, no printing press — only ink, memory, and a vow.

What do you preserve?

What do you refuse to forget?

And who, centuries later, will know that you did?