

Exploring the Foundations of Algebra

Mathematics · Answer Key · 4 Questions

1. From which language does the word "algebra" originate, deriving from the term "al-jabr"?

- A) Latin
- B) Greek
- C) Arabic**
- D) Sanskrit

2. Which historical mathematician is often credited as the "father of algebra" due to his foundational text "Kitab al-Jabr wa-l-Muqabalah"?

- A) Euclid
- B) Pythagoras
- C) Muhammad ibn Musa al-Khwarizmi**
- D) Archimedes

3. In algebra, what does a "variable" primarily represent?

- A) A fixed number
- B) A known constant
- C) An unknown quantity**
- D) A mathematical operation

4. The Fundamental Theorem of Algebra states that every non-constant single-variable polynomial with complex coefficients has at least one root in which number system?

- A) Real numbers
- B) Rational numbers
- C) Natural numbers
- D) Complex numbers**