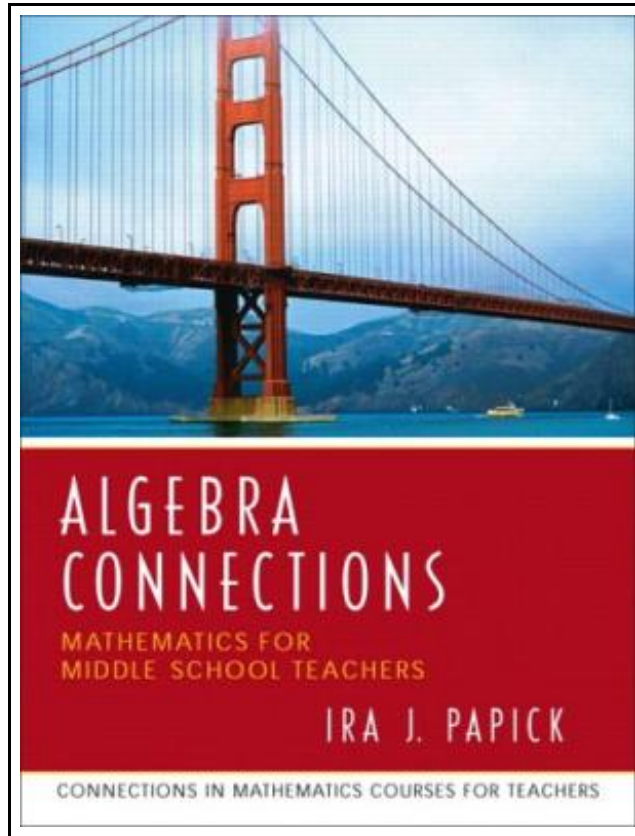


## Algebra Connections



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  - 1.1 Classroom connections: Representing patterns
  - 1.2 Reflections on classroom connections: Representing patterns
  - 1.3 Arithmetic sequences
  - 1.4 Geometric sequences
  - 1.5 Mathematical induction
  - 1.6 Classroom connections: counting tools
  - 1.7 The Binomial Theorem
  - 1.8 The Fibonacci sequence
2. Arithmetic and Algebra of the Integers
  - 2.1 A few mathematical questions concerning the periodical cicadas
  - 2.2 Classroom connections: multiples and divisors
  - 2.3 Reflections on classroom connections: multiples and divisors
  - 2.4. Multiples and divisors
  - 2.5 Least common multiple and greatest common divisor
  - 2.6 The Fundamental Theorem of Arithmetic
  - 2.7 Revisiting the lcm and gcd
  - 2.8 Relations and results concerning lcm and gcd
3. The Division Algorithm and the Euclidean Algorithm
  - 3.1 Measuring integer lengths and the Division Algorithm
  - 3.2 The Euclidean Algorithm
  - 3.3 Applications of the representation  $\gcd(a, b) = ax + by$
  - 3.4 Place value
  - 3.5 Prime thoughts
4. Arithmetic and Algebra of the Integers Modulo  $n$ 
  - 4.1 Classroom connections: divisibility tests
  - 4.2 Reflections on classroom connections: Justifying the divisibility tests
  - 4.3 Clock addition
  - 4.4 Modular arithmetic
  - 4.5 Comparing arithmetic properties of  $\mathbb{Z}$  and  $\mathbb{Z}_n$
  - 4.6 Multiplicative inverses in  $\mathbb{Z}_n$
  - 4.7 Elementary applications of modular arithmetic
  - 4.8 Fermat's Theorem and Wilson's Theorem
  - 4.9 Linear equations defined over  $\mathbb{Z}_n$
  - 4.10 Extended studies: The Chinese Remainder Theorem
  - 4.11 Extended studies: Quadratic equations defined over  $\mathbb{Z}_n$
5. Algebraic Modeling in Geometry: The Pythagorean Theorem and More
  - 5.1 The significance of Daryl's measurements and related geometry
  - 5.2 Classroom connections: The Pythagorean Theorem and its converse
  - 5.3 Reflections on classroom connections: The Pythagorean Theorem and its converse
  - 5.4 Computing distance in 2-dimensional and 3-dimensional Euclidean space: The distance formula
  - 5.5 An extension of the Pythagorean Theorem: The law of cosines
  - 5.6 Integer distances in the plane
  - 5.7 Pythagorean triples: Positive integer solutions to  $x^2 + y^2 = z^2$
  - 5.8 Extended studies: Further investigations into integer distance point sets - a Theorem of Erdős
  - 5.9 Extended studies: Additional questions concerning Pythagorean triples
  - 5.10 Fermat's Last Theorem
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