



Indiana CORE Mathematics Secrets Study Guide: Indiana CORE Test Review for the Indiana CORE Assessments for Educator Licensure

Indiana CORE Exam Secrets Test Prep Team

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*****Includes Practice Test Questions*** Get the test prep help you need to be successful on the Indiana Core Mathematics test.** The Indiana Core Mathematics is extremely challenging and thorough test preparation is essential for success. *Indiana Core Mathematics Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the Indiana Core Mathematics Exam. Not only does it provide a comprehensive guide to the Indiana Core Mathematics Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer. *Indiana Core Mathematics Secrets Study Guide* includes:

- A thorough overview of the Indiana Core Mathematics
- An in-depth look at algebra
- A breakdown of functions
- An analysis of geometry
- A guide to trigonometry
- An extensive review of statistics and probability
- A full study of calculus
- An examination of mathematical reasoning
- A review of mathematics instruction and assessment
- Comprehensive practice questions with detailed answer explanations

It's filled with the critical information you'll need in order to do well on the test: the concepts, procedures, principles, and vocabulary that the Indiana Department of Education and Pearson Education, Inc. expects you to have mastered before sitting for the exam. **The Algebra section covers:**

- Multiplying and dividing signed numbers
- Properties of natural numbers
- Inequalities
- Hyperbola
- Slope, horizontal, vertical, parallel, and perpendicular

The Functions section covers:

- Functions
- Rational functions
- Monotone, even, and odd functions, and discontinuities
- Equal functions

The Geometry section covers:

- Altitude, height, concurrent, and orthocenter
- Acute, right, and obtuse
- Area and perimeter of polygons
- Volume and total surface area of various 3-d shapes

- Geometric description of parabola

The Trigonometry section covers:

- Positive trigonometric functions
- Domain, range, and asymptotes
- Tangent and cotangent of half of a known angle
- Range of the inverse of the sine, cosine, and tangent functions
- Polar coordinate system

The Statistics and Probability section covers:

- Central tendency
- Charts and tables
- Permutations and combinations
- Objective and subjective probability

The Calculus section covers:

- Finding limits by direct substitution
- Implicit differentiation
- Trigonometric differentiation
- Properties of integrals
- Absolute values of limits

The Mathematical Reasoning section covers:

- Proofs
- Inductive and deductive reasoning
- Mathematical induction proof utilizing inductive reasoning
- Formal reasoning

The Mathematical Instruction and Assessment section covers:

- Cognitive theorists and constructivists
- Prior knowledge
- Making mathematics relevant to students lives
- Role of assessment in a classroom focused on cognitive instruction

These sections are full of specific and detailed information that will be key to passing the Indiana Core Mathematics Exam. Concepts and principles aren't simply named or described in passing, but are explained in detail. The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language.

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Kirsten Ferguson:

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