

SAMPLE MATH PLACEMENT TEST C

Math Placement Test C is for students who have completed a semester of Analytic Geometry, Precalculus, Analysis, Trigonometry, or Calculus. Math Placement Test C is the **only** placement test which can place you into Calculus I (MATH 1310, 1310H, or 1340). It can result in a recommendation from MATH 1220 through 1310H.

The questions on this sample test are similar to the questions on Test C in format and level of difficulty. However, not all of the topics or types of questions that are on Test C are included here.

The Topics on Test C can be classified into two types, **Calculus Readiness** and **Trigonometry**. There are a total of 35 multiple-choice mathematics questions contained in Test C. Approximately two-thirds of the questions relate to Calculus Readiness and the other third are on Trigonometry.

Calculus Readiness questions focus on: Geometry and measurement, graphs of functions, word problems and modeling, concept formation, numerical awareness, exponential functions, exponents and logarithms, equations and factoring, functional notation, inequalities, absolute value, basic trigonometry.

Trigonometry questions focus on: Definition of trigonometric functions, right angles, evaluation of special angles, related angles, radian measure, graphing identities, Laws of Sines and Cosines, trigonometric equations, arc functions, distance, straight line, conics, functions (notation, composition), graphs and their properties, logarithmic and exponential functions, higher degree polynomials, absolute value, inequalities.

1. Definition: A function is increasing on the interval $[a, b]$ if and only if $f(x_1) < f(x_2)$ whenever $x_1 < x_2$, where x_1 and x_2 are any number in $[a, b]$.

The function f , pictured in the graph on the right, is increasing on the interval

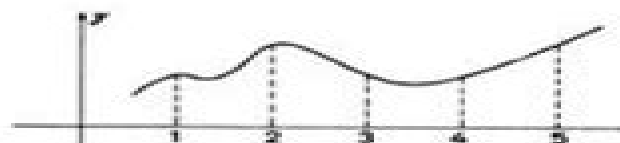
(A) $[1, 2]$

(B) $[2, 3]$

(C) $[3, 4]$

(D) $[4, 5]$

(E) none of these



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Table of Contents Uic Math Placement Test Sample

1. Understanding the eBook Uic Math Placement Test Sample
 - The Rise of Digital Reading Uic Math Placement Test Sample
 - Advantages of eBooks Over Traditional Books
2. Identifying Uic Math Placement Test Sample
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Uic Math Placement Test Sample
 - User-Friendly Interface
4. Exploring eBook Recommendations from Uic Math Placement Test Sample
 - Personalized Recommendations
 - Uic Math Placement Test Sample User Reviews and Ratings
 - Uic Math Placement Test Sample and Bestseller Lists
5. Accessing Uic Math Placement Test Sample Free and Paid eBooks
 - Uic Math Placement Test Sample Public Domain eBooks
 - Uic Math Placement Test Sample eBook Subscription Services
 - Uic Math Placement Test Sample Budget-Friendly Options

6. Navigating Uic Math Placement Test Sample eBook Formats
 - ePub, PDF, MOBI, and More
 - Uic Math Placement Test Sample Compatibility with Devices
 - Uic Math Placement Test Sample Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Uic Math Placement Test Sample
 - Highlighting and Note-Taking Uic Math Placement Test Sample
 - Interactive Elements Uic Math Placement Test Sample
8. Staying Engaged with Uic Math Placement Test Sample
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Uic Math Placement Test Sample
9. Balancing eBooks and Physical Books Uic Math Placement Test Sample
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Uic Math Placement Test Sample
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Uic Math Placement Test Sample
 - Setting Reading Goals Uic Math Placement Test Sample
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Uic Math Placement Test Sample
 - Fact-Checking eBook Content of Uic Math Placement Test Sample
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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