

CLEP College Algebra Practice Test

Time—90 Minutes
60 Questions

For each question below, choose the best answer from the choices given.

1. $(3x + 5)^2 =$
 (A) $9x^2 + 30x + 25$
 (B) $9x^2 + 15x + 25$
 (C) $9x^2 + 15$
 (D) $9x^2 + 25$
 (E) $3x^2 + 25$
2. Which of the following is a factor of $16 - (3x + 2)^2$?
 (A) $16 - 3x + 2$
 (B) $4 + 3x - 2$
 (C) $4 + (3x + 2)$
 (D) $-(3x + 2)^2$
 (E) $3x + 2$
3. $4r(2r^2 - 6) - (5r^2 - 12 + 10r) + 8 =$
 (A) $3r^3 + 34r + 20$
 (B) $3r^3 + 34r - 20$
 (C) $3r^3 - 34r + 20$
 (D) $3r^3 - 34r - 20$
 (E) $13r^3 + 34r + 20$
4. If $a + b = 4$, what is the value of $|4 - a| + |4 - b|$?
 (A) -4
 (B) 0
 (C) 4
 (D) 8
 (E) It cannot be determined from the given information.
5. Where defined, $\frac{x^2 - 16}{\frac{x + 5}{x + 4} \cdot \frac{x - 5}{x - 5}}$
 (A) $\frac{1}{(x + 5)(x - 5)}$
 (B) $\frac{(x - 4)(x - 5)}{x + 5}$
 (C) $\frac{(x + 4)(x - 5)}{x + 5}$
 (D) $\frac{x^2 - x - 20}{x + 5}$
 (E) $\frac{x + 5}{x - 5}$
6. Which of the following is a factor of $8x^2 - 2x - 28$?
 (A) $4x + 7$
 (B) $4x - 4$
 (C) $4x + 2$
 (D) $2x - 7$
 (E) $x + 2$
7. Of the following, which is greatest?
 (A) 4^{2^5}
 (B) $(4^2)^5$
 (C) $(2^4)^5$
 (D) 2^{4^5}
 (E) $(3^4)^2$

Algebra Placement Tests

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Diagnostic and Placement Tests McGraw-Hill Staff, 2000-11 Four diagnostic and placement tests to help place students in the most appropriate of seven Glencoe middle school and algebra textbook series Mathematics applications and connections Course 1 Course 2 or Course 3 Pre algebra an integrated transition to algebra Algebra 1 integration applications connections Algebra 1 Volumes one and two Algebra 1 in two years Algebra concepts and applications Community College Mathematics Brian Cafarella, 2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the book explores math curricula as well as trends initiatives teaching practices and mandates that have impacted community college math The positives and negatives of such trends initiatives and mandates are presented along with suggestions on how to apply such knowledge going forward The author addresses the key questions How can we build a future model for community college gatekeeper math classes that is both successful and sustainable Additionally how can we learn from the past and the present to build such a model This book will be ideal for students in graduate programs focusing on community college leadership or developmental education leadership as well as all those hoping to improve success rates in community college mathematics programs **The Math Academy Way: Using the Power of Science to Supercharge Student Learning** Justin Skycak, 2024-01-15 This book is a working draft updated November 2024 Math Academy is solving Bloom's two sigma problem by bringing together many evidence based cognitive learning strategies into a single online learning platform Our adaptive fully automated platform emulates the decisions of an expert tutor to provide the most effective way to learn math This working draft describes how it's done This draft has been put to print at the request of readers who would like a physical copy of the current version It will be continually updated in the future The price is as low as possible and a digital copy is freely available online at <https://justinmath.com/books/the-math-academy-way> CONTENTS 1 Preliminaries The Two Sigma Solution The Science of Learning Core Science How the Brain Works Core Technology the Knowledge Graph The Importance of Accountability and Incentives 2 Addressing Critical Misconceptions The Persistence of Neuromyths Myths Myths Myths Deliberate Practice Mastery Learning Minimizing Cognitive Load Developing Automaticity Layering Non Interference Spaced Repetition Distributed Practice Interleaving Mixed Practice The Testing Effect Retrieval Practice Targeted Remediation Gamification Leveraging Cognitive Learning Strategies Requires Technology 4 Coaching In Task Coaching Parental Support 5 Technical Deep Dives Technical Deep Dive on Spaced Repetition Technical Deep Dive on

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gender similarity and difference the contributors looked at other types of measures and other characteristics of young women and men Their hope is to contribute to a firmer basis for insuring fairness in tests an objective which is particularly important as the field moves increasingly to new forms of assessment in which there is less experience

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