

# Devry Algebra Assessment Study Guide

11. Factor this algebraic expression. $4x^2 - 9$	16. Graph this inequality on a number line. $x - 2 \geq -5$								
12. Factor and solve this quadratic equation. $x^2 + x - 12 = 0$	17. Graph this inequality on graph paper. $3.5x - y \geq -4$								
13. Expand this expression. $(3x - 2)(x + 4)$	18. Systems of inequalities Sketch a graph to show the solution to the system. $3x + 7 \geq 5x + 1$								
14. Divide this polynomial. $\frac{4x^2 - 5x + 2}{x + 1}$	19. Power function Given the equation graph this function. $f(x) = 2 + x^2$								
15. Recursive sequence Circle an equation for the following table: <table><tr><th>n</th><th>y</th></tr><tr><td>1</td><td>3.5</td></tr><tr><td>2</td><td>2.45</td></tr><tr><td>3</td><td>1.7025</td></tr></table> <input type="radio"/> $y = 2(2.03)^x$ <input type="radio"/> $y = 4(1.03)^x$ <input type="radio"/> $y = 5(2.7)^x$	n	y	1	3.5	2	2.45	3	1.7025	20. On graph paper: 1) write an equation for this transformation 2) sketch a graph  $y = x^2$ right 3 units
n	y								
1	3.5								
2	2.45								
3	1.7025								

Devry Algebra Assessment Study Guide: If you are preparing for the Devry Algebra Assessment, it is crucial to equip yourself with the right tools and knowledge to succeed. This study guide aims to provide you with a comprehensive overview of the topics covered in the assessment, study strategies, and resources to help you prepare effectively. Whether you are a current student or someone contemplating enrolling in DeVry University, understanding the algebra assessment will be beneficial for your academic journey.

## Understanding the DeVry Algebra Assessment

The DeVry Algebra Assessment is designed to evaluate your mathematical skills, specifically your understanding of algebraic concepts. This assessment is essential for determining your readiness for college-level coursework in mathematics and other related subjects. The results of this assessment may influence your course placement, making it vital to prepare adequately.

## Purpose of the Assessment

The primary objectives of the DeVry Algebra Assessment include:

1. Evaluating Mathematical Skills: The assessment measures your grasp of fundamental algebra concepts, which are crucial for various academic

programs.

2. Guiding Course Placement: Based on your performance, the results may place you in either introductory or advanced math courses, ensuring you are in the right class for your skill level.

3. Identifying Areas for Improvement: The assessment helps identify specific topics where you may need further study or practice.

## Topics Covered in the Assessment

The DeVry Algebra Assessment encompasses a variety of algebraic topics. Familiarity with these subjects will significantly enhance your preparation. The key areas typically include:

### 1. Basic Algebraic Operations

- Addition, subtraction, multiplication, and division of integers and rational numbers.
- Order of operations (PEMDAS/BODMAS).

### 2. Algebraic Expressions

- Simplifying expressions.
- Combining like terms.
- Utilizing the distributive property.

### 3. Equations and Inequalities

- Solving linear equations and inequalities.
- Understanding and applying properties of equality.
- Graphing inequalities on a number line.

### 4. Functions and Graphs

- Understanding the concept of a function.
- Evaluating functions.
- Graphing linear functions and analyzing their characteristics, including slope and intercepts.

### 5. Polynomials

- Understanding polynomial terminology (degree, leading coefficient).
- Adding, subtracting, and multiplying polynomials.
- Factoring simple polynomials.

### 6. Rational Expressions

- Simplifying rational expressions.
- Performing operations with rational expressions (addition, subtraction, multiplication, and division).

### 7. Radicals

- Simplifying square roots and other radical expressions.
- Solving equations involving radicals.

### 8. Word Problems

- Translating verbal descriptions into algebraic equations.
- Setting up and solving real-world problems using algebra.

## **Study Strategies for the Assessment**

Preparing for the DeVry Algebra Assessment requires a strategic approach. Here are some effective study strategies to help you achieve optimal results:

### **Create a Study Schedule**

1. Set Specific Goals: Determine which topics you need to focus on and allocate time for each.
2. Plan Regular Study Sessions: Aim for consistent practice, dedicating at least a few hours each week leading up to the assessment.
3. Incorporate Breaks: Allow yourself short breaks to prevent burnout and maintain focus.

### **Use Quality Study Materials**

1. Textbooks and Workbooks: Utilize algebra textbooks that cover the assessment topics in detail.
2. Online Resources: Websites like Khan Academy and Purplemath offer free tutorials and exercises.
3. Practice Tests: Seek out practice assessments that mimic the structure and content of the DeVry Algebra Assessment.

### **Practice Problem-Solving**

1. Work Through Examples: Begin with worked examples to understand the process before attempting problems independently.
2. Practice, Practice, Practice: Solve a variety of problems across all topics to build confidence and proficiency.
3. Review Mistakes: Analyze errors to identify areas needing improvement, ensuring you understand the correct approach.

### **Join a Study Group**

1. Collaborative Learning: Partner with classmates or friends to discuss concepts and solve problems together.
2. Peer Teaching: Explaining concepts to others can reinforce your understanding.

3. Accountability: Having a study group can motivate you to remain committed to your study schedule.

## Resources for Preparation

There are numerous resources available to help you prepare for the DeVry Algebra Assessment. These include:

### Online Courses and Tutorials

- Khan Academy: Offers comprehensive algebra courses, video lessons, and practice exercises.
- Coursera and edX: Provide access to college-level algebra courses from reputable institutions.

### Mobile Apps

- Photomath: Allows you to take pictures of math problems and provides step-by-step solutions.
- Mathway: An app that helps solve various math problems, showing you how to arrive at the solution.

### Study Guides and Workbooks

- Algebra for Dummies: A helpful resource that breaks down complex topics into digestible sections.
- Barron's Algebra I Workbook: Contains practice problems and exercises to reinforce learning.

## Test-Taking Strategies

On the day of the assessment, it's important to approach the test with a clear strategy. Here are some tips to enhance your performance:

### Read Directions Carefully

- Ensure you understand what is being asked in each question before proceeding.
- Pay attention to specific instructions regarding how to answer questions.

## **Manage Your Time**

- Keep track of time to ensure you can complete all questions.
- If you encounter a challenging question, move on and return to it later if time permits.

## **Double-Check Your Work**

- If time allows, review your answers to catch any mistakes or oversights.
- Ensure that all calculations are correct, and that you have answered every question.

## **Conclusion**

Preparing for the DeVry Algebra Assessment can be a rewarding process that enhances your mathematical skills and sets a solid foundation for your academic career. By understanding the assessment's structure, focusing on essential topics, employing effective study strategies, and utilizing available resources, you can approach the test with confidence. Remember, consistent practice and a positive mindset are key to achieving success. Good luck with your preparation!

## **Frequently Asked Questions**

### **What topics are covered in the DeVry algebra assessment study guide?**

The study guide typically covers topics such as basic operations, equations and inequalities, functions, graphing, polynomials, and rational expressions.

### **How can I best prepare for the DeVry algebra assessment?**

To prepare effectively, review the study guide material, practice problems regularly, utilize online resources, and consider forming a study group with peers.

### **Is there a practice test available for the DeVry algebra assessment?**

Yes, the DeVry algebra assessment study guide often includes practice questions and may recommend online resources where you can find full practice tests.

## What is the format of the DeVry algebra assessment?

The assessment typically consists of multiple-choice questions that evaluate your understanding of algebraic concepts and problem-solving skills.

## How long is the DeVry algebra assessment?

The duration of the assessment can vary, but it usually lasts around 90 minutes.

## Are calculators allowed during the DeVry algebra assessment?

Generally, calculators are not allowed unless specified; it's best to check the specific guidelines provided by DeVry.

## What resources are recommended for additional help with algebra concepts beyond the study guide?

In addition to the study guide, students can use online platforms like Khan Academy, educational YouTube channels, and tutoring services for extra help.

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