

# Westchester Community College

## Elementary Algebra Study Guide for the ACCUPLACER

Courtesy of  
Aims Community College

The following sample questions are similar to the format and content of questions on the Accuplacer Elementary Algebra test. Reviewing these samples will give you a good idea of how the test works and just what mathematical topics you may wish to review before taking the test itself. Our purposes in providing you with this information are to aid your memory and to help you do your best.

### I. Order of operations

1.  $3^2 + 5 - \sqrt{4} + 4^0$

3.  $3 \cdot 7^2$

5.  $49 + 7 - 2 \cdot 2$

7.  $3 + 2(5) - |-7|$

9.  $\frac{4^2 - 5^2}{(4 - 5)^2}$

2.  $(5 + 1)(4 - 2) - 3$

4.  $2(7 + 3)^2$

6.  $9 + 3 \cdot 5 - 8 + 2 + 27$

8.  $\frac{5 \cdot 5 - 4(4)}{2^2 - 1}$

10.  $-5^2$

### II. Scientific Notation

Write the following in Scientific Notation.

1. 350,000,000

2. 0.000000000000000523

3. 120,500,000,000,000,000,000

Write in expanded form.

4.  $6.02 \times 10^{23}$

5.  $3.0 \times 10^8$

6.  $1.819 \times 10^{-9}$

Simplify. Write answers in scientific notation.

7.  $(3 \times 10^3)(5 \times 10^6)$

8.  $(3 \times 10^{-4})^2$

9.  $\frac{6 \times 10^9}{3 \times 10^{-4}}$

10.  $\frac{(3.2 \times 10^5)(2 \times 10^{-3})}{2 \times 10^{-2}}$

### III. Substitution

Find each value if  $x = 3$ ,  $y = -4$ , and  $z = 2$ .

1.  $xyz - 4z$

2.  $2x - y$

3.  $x(y - 3z)$

4.  $\frac{5x - z}{xy}$

5.  $3y^2 - 2x + 4z$

### IV. Linear equations in one variable

Solve the following for  $x$ .

1.  $6x - 48 = 6$

2.  $\frac{2}{3}x - 5 = x - 3$

3.  $50 - x - (3x + 2) = 0$

4.  $8 - 4(x - 1) = 2 + 3(4 - x)$

# Elementary Algebra Study Guide

**M Lipman**



## **Elementary Algebra Study Guide:**

This book delves into Elementary Algebra Study Guide. Elementary Algebra Study Guide is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Elementary Algebra Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Elementary Algebra Study Guide
    - Chapter 2: Essential Elements of Elementary Algebra Study Guide
    - Chapter 3: Elementary Algebra Study Guide in Everyday Life
    - Chapter 4: Elementary Algebra Study Guide in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Elementary Algebra Study Guide. The first chapter will explore what Elementary Algebra Study Guide is, why Elementary Algebra Study Guide is vital, and how to effectively learn about Elementary Algebra Study Guide.
  3. In chapter 2, the author will delve into the foundational concepts of Elementary Algebra Study Guide. This chapter will elucidate the essential principles that need to be understood to grasp Elementary Algebra Study Guide in its entirety.
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  6. In chapter 5, this book will draw a conclusion about Elementary Algebra Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Elementary Algebra Study Guide.

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25,000 units x ml/hr 750,000 x ml/hr 750,000/25,000

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