



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

MTH 1110 College Algebra I
3 Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Apply linear equations and inequalities to real-world situations.
 - a. Solve linear equations and inequalities.
 - b. Solve linear equations involving absolute value.
 - c. Graph linear equations.
 - d. Identify characteristics of the graph of a linear equation, such as the slope and intercepts.
 - e. Solve systems of linear equations in two variables.
2. Apply polynomial equations to real-world situations.
 - a. Manipulate polynomial expressions.
 - b. Perform the complete set of basic operations on polynomial expressions.
 - c. Factor polynomial expressions.
 - d. Solve polynomial equations by factoring or using the quadratic formula.
3. Apply rational equations to real-world situations.
 - a. Perform the complete set of basic operations on rational expressions.
 - b. Solve rational equations.
4. Apply algebraic concepts to functions.
 - a. Define function notation.
 - b. Calculate function values.
 - c. Graph functions.
 - d. Perform addition, subtraction, multiplication, and division with functions.

Big Ideas and Essential Questions

Big Ideas

- Linear Equations and Inequalities
- Quadratic and Rational Equations
- Functions Discrete Probability

Essential Questions

1. How do mathematical models help me describe real world applications?
 2. How can algebraic techniques be used to solve real world problems?
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These SLOs are not approved for experiential credit.

Effective: Fall 2021