### Introduction to Algebra - Solving Linear Equations

#### Learning Objective

Students will be able to understand and solve basic linear equations using inverse operations.

#### Introduction

Linear equations are mathematical expressions involving variables raised to the power of one. Solving lin

# **Key Concepts**

- A linear equation is an equation of the form ax + b = c.
- The goal is to isolate the variable (usually x).
- Use inverse operations to 'undo' addition, subtraction, multiplication, or division.
- Always perform the same operation on both sides of the equation to keep it balanced.

# Example Problem

Solve: 3x - 4 = 11

Step 1: Add 4 to both sides -> 3x = 15Step 2: Divide both sides by 3 -> x = 5

# Adaptations for Autistic Students

- Use clear, step-by-step instructions with visual aids.
- Break down each step and provide ample practice problems.
- Use consistent language and symbols to reduce confusion.
- Allow extra time for processing and understanding each concept.