

College Algebra Day 4

Sections 2.3

Linear Equations in One Variable

The Form:

Properties of Equality

Solving Linear Equations Symbolically

Example: Solve $\frac{x+1}{3} - \frac{x}{2} = 2 - \frac{1}{6}(2-x)$

Example: Solve $0.02(x+3) - 0.03(2x-3) = 0.12$

Contradictions, Identities, and Conditional Equations

Example: Solve $\frac{t+1}{2} = \frac{3t-2}{6}$

Example: Solve $0.5(x-2) + 5 = 0.5x + 4$

Solving a Formula for a Variable

Example: Solve $A = \frac{1}{2}h(b+B)$, for b

Problem Solving Strategies

Work-Rate, Motion, Mixtures, Geometry, Investments

Examples taken from the handout *Applications from Chapter 1*.