

ALGEBRAIC EXPRESSIONS AND EQUATIONS: OBJECTIVES*

Denny Burzynski

Wade Ellis

This work is produced by OpenStax-CNX and licensed under the
Creative Commons Attribution License 2.0[†]

Abstract

This module contains the learning objectives for the chapter "Algebraic Expressions and Equations" from Fundamentals of Mathematics by Denny Burzynski and Wade Ellis, jr.

After completing this chapter, you should

Algebraic Expressions (here¹)

- be able to recognize an algebraic expression
- be able to distinguish between terms and factors
- understand the meaning and function of coefficients
- be able to perform numerical evaluation

Combining Like Terms Using Addition and Subtraction (here²)

- be able to combine like terms in an algebraic expression

Solving Equations of the Form $x + a = b$ and $x - a = b$ (here³)

- understand the meaning and function of an equation
- understand what is meant by the solution to an equation
- be able to solve equations of the form $x + a = b$ and $x - a = b$

Solving Equations of the Form $ax = b$ and $\frac{x}{a} = b$ (here⁴)

- be familiar with the multiplication/division property of equality
- be able to solve equations of the form $ax = b$ and $\frac{x}{a} = b$
- be able to use combined techniques to solve equations

*Version 1.3: Aug 18, 2010 8:15 pm -0500

[†]<http://creativecommons.org/licenses/by/2.0/>

¹"Algebraic Expressions and Equations: Algebraic Expressions" <<http://cnx.org/content/m35038/latest/>>

²"Algebraic Expressions and Equations: Combining Like Terms Using Addition and Subtraction"
<<http://cnx.org/content/m35039/latest/>>

³"Algebraic Expressions and Equations: Solving Equations of the Form $x+a=b$ and $x-a=b$ "
<<http://cnx.org/content/m35044/latest/>>

⁴"Algebraic Expressions and Equations: Solving Equations of the Form $ax=b$ and $x/a=b$ "
<<http://cnx.org/content/m35045/latest/>>

Applications I: Translating Words to Mathematical Symbols (here⁵)

- be able to translate phrases and statements to mathematical expressions and equations

Applications II: Solving Problems (here⁶)

- be more familiar with the five-step method for solving applied problems
- be able to use the five-step method to solve number problems and geometry problems

⁵"Algebraic Expressions and Equations: Applications I: Translating Words to Mathematical Symbols"
<<http://cnx.org/content/m35046/latest/>>

⁶"Algebraic Expressions and Equations: Applications II: Solving Problems" <<http://cnx.org/content/m35047/latest/>>