

Algebra 1
Expression Evaluation and Properties of Operations

Expression Evaluation and Properties of Operations | A1-U01-COMB-P11-P12
96 problems · Four activity formats

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Topic focus
Across 96 tasks this topic asks for comparison with structural explanation, counterexample and corrected rule, equivalent rewrite, value, and property explanation, exact value, exact value or insufficiency with witnesses and exact value with grouping shown.
8 PDFs and a README; 54 buyer pages.

Algebra 1

Expression Evaluation and Properties of Operations

Name: _____ Date: _____ Class: _____

Answer each question and record the matching bank letter. Give exact values. A value without its unit is not a complete answer.

An answer may be used more than once.

Evaluate $x(x - 1) + 2x$ when $x = -5$. Replace every occurrence of x before simplifying.

Evaluate $-(x^3) + 2x$ when $x = -3$. Show the substituted negative input in parentheses so the base of each power is clear.

Bank label: _____

Bank label: _____

Use the given assignments $x = 0, y = 0$ to evaluate $4(x + y) - 3x$. Match every value to its symbol and preserve the grouping.

$$4(x + y) - 3x$$

variable	value
x	0
y	0

Use the given assignments $x = 0, y = 2$ to evaluate $x(y - 3) + 3y$. Match every value to its symbol and preserve the grouping.

$$x(y - 3) + 3y$$

variable	value
x	0
y	2

Bank label: _____

Bank label: _____

Algebra 1

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Name: _____ Date: _____ Class: _____

Answer each question and show your reasoning in the workspace. Give exact values rather than decimals unless the question supplies a decimal. A value without its unit is not a complete answer.

Use the given assignments $x = -2$, $y = 0$ to evaluate $x(y - 3) + 3y$. Match every value to its symbol and preserve the grouping. _____ _____	Use the given assignments $x = 0$, $y = 0$ to evaluate $x(y - 5) + 5y$. Match every value to its symbol and preserve the grouping. _____ _____
Evaluate $\frac{x+2}{x+7}$ at $x = -2$. Check the denominator in the original expression before simplifying; if it is zero, state why the value is undefined. _____ _____	Evaluate $\frac{x+1}{x-(-2)}$ at $x = -2$. Check the denominator in the original expression before simplifying; if it is zero, state why the value is undefined. _____ _____
Evaluate $\frac{x+3}{x-(0)}$ at $x = 0$. Check the denominator in the original expression before simplifying; if it is zero, state why the value is undefined. _____ _____	Evaluate $\frac{x+5}{x-(1)}$ at $x = 1$. Check the denominator in the original expression before simplifying; if it is zero, state why the value is undefined. _____ _____

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Evaluate the supplied statement or method. Say whether it is correct, repair it if it is not, and verify the result exactly. Not every prompt contains an error.

Choose and justify a method before solving (direct substitution, an organized value table, or an equivalent-form check). Then complete the task: Use the given assignments $x = -2$, $y = -2$ to evaluate $2(x + y) - x$. Match every value to its symbol and preserve the grouping.

$$2(x + y) - x$$

variable	value
x	-2
y	-2

Choose and justify a method before solving (direct substitution, an organized value table, or an equivalent-form check). Then complete the task: Use the given assignments $x = -3$, $y = 3$, $z = 0$ to evaluate $(x + 2y)(z - x)$. Match every value to its symbol and preserve the grouping.

$$(x + 2y)(z - x)$$

variable	value
x	-3
y	3
z	0

Expression Evaluation and Properties of Operations

Full Worked Solutions - excerpt

Worked example

Problem. Evaluate $2x + x - 1$ when $x = -6$. Replace every occurrence of x before simplifying.

Answer. -19

Explanation and check.

Replace both occurrences of x by -6 : $2(-6) + (-6) - 1 = -19$.

Worked example

Problem. Evaluate $3x + x - 3$ when $x = 0$. Replace every occurrence of x before simplifying.

Answer. -3

Explanation and check.

Replace both occurrences of x by 0 : $3(0) + (0) - 3 = -3$.