

Section 9.R.3 Evaluating Algebraic Expressions

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Evaluating Algebraic Expressions

To Evaluate an Algebraic Expression

1. _____

2. _____

3. _____

(Note: Terms separated by + and – signs may be evaluated _____.)

Example 4 Simplifying and Evaluating Algebraic Expressions

Simplify and evaluate $\frac{7x+5x}{4} - 2(x+1)$ for $x = 5$.

Solution

Exercises

Simplify each expression and then evaluate the expression for $x = 4$, $y = 3$, $a = -2$, and $b = -1$.

1. $5y + 4 - 2y$

4. $1.3(y + 2) - 2.6(8 - y)$

2. $7b - 17 - b$

5. $\frac{3a + 5a}{-2} + 12a$

3. $3(y - 1) + 2(y + 2)$

Simplify each expression and then evaluate the expression for $a = -1$, $b = -2$ and $c = 3$.

6. $5ab - 7a + 4ab + 2b$

8. $14(a + 7) - 15(b + 6) + 2(c - 3)$

7. $2ab + 4b - 3a + ab - b$

9. $12(a - 3) + 8(b - 2) - 3(c + 4)$