Evaluating Expressions

simplify

no =

To evaluate a numerical expression involving more than one operation, follow the order of operations:

1. Parenthesis ( ) [ ] [( )]
2. Exponents (3^2 8^2
3. Multiplication * · x 3(8)
4. Division ÷ / $\frac{3}{4}$

what you see first from left to right

5. Addition +
6. Subtraction −

what you see first from left to right

Example 1: Evaluate the expression.

$2-(4-7)^2 \div (-6)$

$2-(-3)^2 \div (-6)$

$2-9 \div (-6)$

$2+ +1.5$

3.5

$3+(10-2)\cdot 5-4$

$3+8\cdot 5-4$

$3+40-4$

$43-4$

39

To evaluate a variable expression, substitute a value for each variable and use the order of operations to simplify.

Example 2: Evaluate the expression.

$x^2 + x - 18$ when $x = 5$

$(5)^2 + (5) - 18$

$25 + (5) - 18$

$30 - 18$

12

August 30, 2017

Name

Evaluating Expressions

pg. 670 #1-18

Notes Distributive Property