

Using Order of Operations to Simplify Algebraic Expressions

Answer Key

Rewrite each algebraic expression without parentheses.

- $3x - 2(x + 4) - (x - 2) = -6$
- $-4(3(x - y - z) - 3(2x + y - z)) = 12x + 24y$
- $7(3 - x) - 2(1 - x^2) = 19 - 7x + 2x^2$
- $(3 - b)a + 3 - ba = 3a - 2ab + 3$
- $y - y(x - y) = y - yx + y^2$
- $4(2xy) = 8xy$
- $5x - 2(3 - (1 - 2x - (1 + 2x))) - x = -3x - 6$
- $(4 - x)x - 4(1 - x) = 8x - x^2 - 4$
- $1 - x - (1 - (1 - x)) - 1 - x = -3x$
- $5(x - 4(x - 3(x - 2(x - 1)))) = 75x + 120$