

Functions and their Representations

Simplifying Expressions with Function Notation

Example: Simplify the following expressions if $f(x)=x^2-4x+7$

a) $f(-x)$

b) $-f(x)$

c) $f(2x)$

d) $2f(x)$

Example: Simplify the following expressions if $f(x)=x^2-4x+7$

a) $f(x+1)$

b) $f(x)+1$

Example: Simplify the following expressions if $g(t) = \frac{t}{t+3}$

a) $-3g(1-t)$

b) $g(-2t)+1$

Example: Simplify the following expressions if $r(x) = \sqrt{5-3x}$

a) $r(3t-4)$

b) $5r(x+2)+4$