Function Operations

Overview of problems

Example Set: A

Simplify the equation for h(x) for the given functions

$f(x) = 2x - 2$ $\quad$ $g(x) = -3x$

$h(x) = f(x) + g(x)$

$h(x) = -g(x) - f(x)$

$h(x) = f(x) \cdot g(x)$

$h(x) = f(x) \div g(x)$

Example Set: B

Simplify the equation for h(x) for the given functions

$f(x) = 3x^2$ $\qquad$ $g(x) = 4x - 1$

$h(x) = f(x) \cdot g(x)$

$h(x) = \dfrac{f(x) - g(x)}{f(x)}$

$h(x) = -6x \cdot f(x)$

$h(x) = (g(x) + 10) \div [f(x)]^2$

Function Operations

Overview of problems- KEY

Example Set: A

Simplify the equation for h(x) for the given functions

$f(x) = 2x - 2$ $\quad$ $g(x) = -3x$

$h(x) = f(x) + g(x)$ $\quad$ $h(x) = -1x - 2$

$h(x) = -g(x) - f(x)$ $\quad$ $h(x) = 1x + 2$

$h(x) = f(x) \cdot g(x)$ $\quad$ $h(x) = -6x^2 + 6x$

$h(x) = f(x) \div g(x)$ $\quad$ $h(x) = \dfrac{2x - 2}{-3x}$

Example Set: B

Simplify the equation for h(x) for the given functions

$f(x) = 3x^2$ $\qquad$ $g(x) = 4x - 1$

$h(x) = f(x) \cdot g(x)$ $\qquad$ $h(x) = 12x^3 - 3x^2$

$h(x) = \dfrac{f(x) - g(x)}{f(x)}$ $\qquad$ $h(x) = \dfrac{3x^2 - 4x + 1}{3x^2}$

$h(x) = -6x \cdot f(x)$ $\qquad$ $h(x) = -18x^3$

$h(x) = (g(x) + 10) \div [f(x)]^2$

$h(x) = \dfrac{4x + 9}{9x^4}$