

● Function Operations and Inverses

Sum, difference, and product of two functions

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Suppose that the functions f and g are defined for all real numbers x as follows.

$$f(x) = 2x + 5$$

$$g(x) = x + 1$$

Write the expressions for $(g \cdot f)(x)$ and $(g + f)(x)$ and evaluate $(g - f)(-1)$.

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

$$(g + f)(x) = \square$$

$$(g - f)(-1) = \square$$

