

Given $f(x) = 2x + 5$ and $g(x) = 1 - x$, find the following.

$$(f + g)(x)$$

$$(f - g)(x)$$

$$(fg)(x)$$

$$\left(\frac{f}{g}\right)(x); \text{ give the domain}$$

Given $f(x) = x^2 - 8$ and $g(x) = \sqrt{1 - x}$.

Find $f(g(x))$ and give the domain

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Evaluate the indicated function for $f(x) = x^2 - 2$ and $g(x) = x + 3$.

$$(f + g)(3)$$

$$(f - g)(-3)$$

$$\left(\frac{f}{g}\right)(2)$$