Exercise 74

For the following exercises, evaluate the expressions, given functions f, g, and h:

- f(x) = 3x 2
- $g(x) = 5 x^2$
- $h(x) = -2x^2 + 3x 1$

$$3f(1) - 4g(-2)$$

Solution

Evaluate the functions at the give values of x.

$$f(1) = 3(1) - 2 = 3 - 2 = 1$$
$$g(-2) = 5 - (-2)^2 = 5 - 4 = 1$$

Therefore,

$$3f(1) - 4g(-2) = 3(1) - 4(1)$$

= 3 - 4
= -1.