## Exercise 74

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

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

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

## Solution

Evaluate the functions at the give values of $x$.

$$
\begin{gathered}
f(1)=3(1)-2=3-2=1 \\
g(-2)=5-(-2)^{2}=5-4=1
\end{gathered}
$$

Therefore,

$$
\begin{aligned}
3 f(1)-4 g(-2) & =3(1)-4(1) \\
& =3-4 \\
& =-1
\end{aligned}
$$

