## **Checkpoint 1.1: Evaluating Functions**

## Instruction

For the function  $f(x) = x^2 - 3x + 5$  evaluate

- (a) f(1)
- (b) f(a+h)

## **Solution**

- (a)  $f(1) = 1^2 3 \cdot 1 + 5 = 1 3 + 5 = 3$ .
- (b)  $f(a+h) = (a+h)^2 3(a+h) + 5 = a^2 + 2ah + h^2 3a 3h + 5$ .

## **Answer**

- (a) f(1) = 3.
- (b)  $f(a+h) = a^2 + 2ah + h^2 3a 3h + 5$ .