

# Chapter 1: Functions and Graphs

## Checkpoint Solutions

### 1.1 Evaluating Functions

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