

Checklist

What you should know

By the end of this subtopic you should be able to:

- determine whether a relationship, expressed as a set of ordered pairs and as a mapping diagram, is a function
- use the vertical line test
- find the domain of a function implicitly by considering restrictions on the input values
- use the graph of a function to find its range
- evaluate the output value of a function for various input values by using the graph and the formula of the function
- set up mathematical models to solve real-life problems
- find the formula of the inverse function f^{-1} informally
- use the property of reflection in the line $x = y$ to determine whether two functions are the inverse of each other.

