

## Check your understanding

2. Which of the following curves has a parametrization  $x = f(t), y = g(t)$  in which  $f(t) = t$ ?
- (a) The part of the unit circle  $x^2 + y^2 = 1$  where  $x \geq 0$ .
  - (b) The part of the unit circle where  $y \geq 0$ .
  - (c) The whole unit circle.

Answer: (b)

Explanation: A curve has a parametrization with  $f(t) = t$  when it is the graph of a function  $y = g(x)$ .