

2.

The function f is defined by

$$f(x) = \begin{cases} x + 2 & x \leq 2 \\ (x - 2)^2 + 4 & x > 2 \end{cases}$$

- (a) Sketch the graph of $f(x)$ on the axes below.

(3)

- (b) Find an expression for $f^{-1}(x)$.

You must specify its domain.

(6)

