

10 The one-one function f is defined by $f(x) = (x - 2)^2 + 2$ for $x \geq c$, where c is a constant.

(i) State the smallest possible value of c .

[1]

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In parts **(ii)** and **(iii)** the value of c is 4.

(ii) Find an expression for $f^{-1}(x)$ and state the domain of f^{-1} .

[3]

[illegible]

