

(ii) The function f is defined by $f(x) = 2x^2 - 12x + 13$ for $x \ge k$, where k is a constant. It is given that f is a one-one function. State the smallest possible value of k. [1]

The value of k is now given to be 7.

(iv) Find an expression for $f^{-1}(x)$ and state the domain of f^{-1} . [5]