

- 11** (i) Express $2x^2 - 12x + 11$ in the form $a(x + b)^2 + c$, where a , b and c are constants. [3]

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The function f is defined by $f(x) = 2x^2 - 12x + 11$ for $x \leq k$.

- (ii) State the largest value of the constant k for which f is a one-one function. [1]

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- (iii) For this value of k find an expression for $f^{-1}(x)$ and state the domain of f^{-1} . [4]

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