

The function f is defined by $f(x) = -2x^2 - 8x - 13$ for $x < -3$.

(a) Express $f(x)$ in the form $-2(x+a)^2 + b$, where a and b are integers. [2]

[illegible]

(b) Find the range of f . [1]

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(c) Find an expression for $f^{-1}(x)$. [3]

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