3 It is given that $(x + 1)$ and $(x - 3)$ are two factors of $f(x)$, where

$$f(x) = px^3 - 3x^2 - 8x + q$$

3 (a) Find the values of p and q.

[3 marks]

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3 (b) Fully factorise $f(x)$.

[2 marks]

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Turn over ▶