

Higher Maths
SQA 2024 Paper 1
Question 10



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- (a) Show that $(x-1)$ is a factor of $2x^4 + 3x^3 - 4x^2 - 3x + 2$. 2
- (b) Hence, or otherwise, factorise $2x^4 + 3x^3 - 4x^2 - 3x + 2$ fully. 4
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Answers:

- (a) Use 1 in synthetic division or in evaluation of the quartic function.
Interpret the result and state that $(x-1)$ is a factor.
- (b) $(x-1)(x+1)(2x-1)(x+2)$