

Higher Maths
SQA 2025 Paper 1
Question 7



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- (a) Show that $(x+3)$ is a factor of $5x^3 + 16x^2 - x - 12$. 2
- (b) Hence, or otherwise, solve $5x^3 + 16x^2 - x - 12 = 0$. 3
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Answers:

- (a) Use -3 in synthetic division or in evaluation of the cubic expression.
Interpret the result and state that $(x+3)$ is a factor.
- (b) $-3, \frac{4}{5}, -1$