Higher Maths SQA 2019 Paper 2 Question 10



- (a) Show that (x+3) is a factor of $3x^4 + 10x^3 + x^2 8x 6$.
- (b) Hence, or otherwise, factorise $3x^4 + 10x^3 + x^2 8x 6$ fully.

Answers:

- (a) Use -3 in synthetic division, algebraic division or evaluation, to show that the remainder upon division by (x + 3) equals 0.
- (b) $(x+3)(x-1)(3x^2+4x+2)$