Edexcel Further Mathematics Maclaurin series integral*



Section 1: Finding and using Maclaurin series

Exercise level 3

- 1. (i) Find the power series for $cos(x+\frac{\pi}{3})$ as far as the term in x^2 .
 - (ii) Find the power series for $sec(x + \frac{\pi}{3})$ as far as the term in x^2 .
 - (iii) Multiply these together, neglecting terms in x^3 and higher, and comment on your result.

