

Advanced Higher Maths
SQA 2025 Paper 2
Question 6



-
- (a) Find and simplify the Maclaurin expansion, up to and including the term in x^4 , for $\cos 3x$. 2
- (b) Hence find and simplify the Maclaurin expansion, up to and including the term in x^4 , for $\cos^2 3x$. 2
-

Answers:

(a) $1 - \frac{9}{2}x^2 + \frac{27}{8}x^4$

(b) $1 - 9x^2 + 27x^4$