

A Level · Edexcel · Further Maths





## 3.3 Maclaurin Series

3.3.1 Maclaurin Series

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**Total Marks** 

/10

1 (a)

$$y = \sin x \sinh x$$

Show that  $\frac{d^4y}{dx^4} = -4y$ 

(4 marks)

(b) Hence find the first three non-zero terms of the Maclaurin series for y, giving each coefficient in its simplest form.

(4 marks)

Find an expression for the nth non-zero term of the Maclaurin series for y. **(c)** (c)

(2 marks)