

Further Elementary Analysis – Exercises 16b

Partial fractions and their applications The expansion of rational algebraic functions

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2 March 2024

Question 1

State the necessary conditions for expanding the function $\frac{1}{x^2 - 4}$ in ascending powers of x and find the first three terms of the expansion.

Answer

Let

$$\frac{1}{x^2 - 4} = \frac{1}{(x - 2)(x + 2)} = \frac{A}{x - 2} + \frac{B}{x + 2},$$

so that

$$1 = A(x + 2) + B(x - 2).$$

Setting $x = 2$, we obtain $1 = 4A$, giving $A = 1/4$.

Setting $x = -2$, we obtain $1 = -4B$, giving $B = -1/4$.

Hence

$$\begin{aligned} \frac{1}{x^2 - 4} &= \frac{1}{4}(x - 2)^{-1} - \frac{1}{4}(x + 2)^{-1} \\ &= -\frac{1}{8}\left(1 - \frac{x}{2}\right)^{-1} - \frac{1}{8}\left(1 + \frac{x}{2}\right)^{-1} \\ &= -\frac{1}{8}\left(1 + \frac{x}{2} + \frac{x^2}{4} + \frac{x^3}{8} + \frac{x^4}{16} \dots\right) - \frac{1}{8}\left(1 - \frac{x}{2} + \frac{x^2}{4} - \frac{x^3}{8} + \frac{x^4}{16} \dots\right) \\ &= -\frac{1}{8} - \frac{1}{8} - \frac{x}{16} + \frac{x}{16} - \frac{x^2}{32} - \frac{x^2}{32} - \frac{x^3}{64} + \frac{x^3}{64} - \frac{x^4}{128} - \frac{x^4}{128} \dots \\ &= -\frac{1}{4} - \frac{x^2}{16} - \frac{x^4}{64} \dots, \end{aligned}$$

the expansion being valid if $|x| < 2$.

Question 2

State the necessary conditions for expanding the function $\frac{2x - 4}{(1 - 2x)(1 + x)}$ in ascending powers of x and find the first three terms of the expansion.

Answer

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