

Lesson 5

Partial Fractions : Pure Year 2

5.1 Past Paper Partial Fractions

Question 1

C4 examination question from June 2005, Q3 (a)

Express in partial fractions;

$$\frac{5x + 3}{(2x - 3)(x + 2)}$$

[3 marks]

Question 2

C4 examination question from June 2006, Q2 (a)

$$f(x) = \frac{3x - 1}{(1 - 2x)^2} \quad |x| < \frac{1}{2}$$

Given that, for $x \neq \frac{1}{2}$

$$\frac{3x - 1}{(1 - 2x)^2} = \frac{A}{(1 - 2x)} + \frac{B}{(1 - 2x)^2}$$

where A and B are constants, find the values of A and B

[3 marks]

Question 3

C4 examination question from June 2010, Q5 (a)

$$\frac{2x^2 + 5x - 10}{(x - 1)(x + 2)} = A + \frac{B}{x - 1} + \frac{C}{x + 2}$$

Find the values of the constants A , B and C

[4 marks]

Question 4

C4 examination question from January 2013, Q3

Express in partial fractions;

$$\frac{9x^2 + 20x - 10}{(x + 2)(3x - 1)}$$

[4 marks]

Question 5

C4 examination question from June 2008, Q7 (a)

Express in partial fractions;

$$\frac{2}{(4 - y^2)}$$

[3 marks]

All examination questions are © Pearson Education Ltd
and have appeared in the Edexcel GCE (A level) Pure Mathematics examination papers

These lesson notes are available from www.NumberWonder.co.uk
They may be freely duplicated and distributed but copyright remains with the author.
© 2019 Number Wonder