

$$y = \frac{5}{(x^2 + 1)}$$

(a) Complete the table below, giving the missing value of  $y$  to 3 decimal places.

$x$	0	0.5	1	1.5	2	2.5	3
$y$	5	4	2.5		1	0.690	0.5

(1)

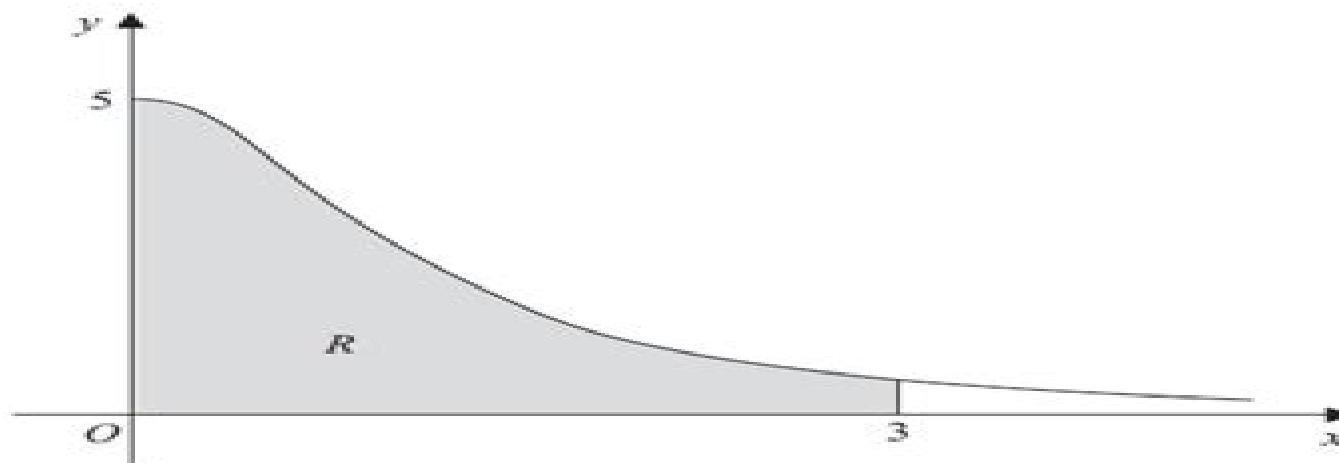


Figure 1

Figure 1 shows the region  $R$  which is bounded by the curve with equation  $y = \frac{5}{(x^2 + 1)}$ , the  $x$ -axis and the lines  $x = 0$  and  $x = 3$ .

(b) Use the trapezium rule, with all the values of  $y$  from your table, to find an approximate value for the area of  $R$ .

(4)

(c) Use your answer to part (b) to find an approximate value for

$$\int_0^3 \left( 4 + \frac{5}{(x^2 + 1)} \right) dx$$

giving your answer to 2 decimal places.

(2)

# Maths June 2013 C2 Paper

**Vesna Kadelburg, Ben Woolley**

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**Revue Roumaine Des Sciences Techniques** ,1982 [A Level Mathematics](#) G. Ioannou,2015-10-27 Here I offer a complete Lesson on Maths A level suitable to Edexcel C2 Differentiation This set of notes completely covers the chapter with 56 worked examples With over 20 years experience in teaching A level mathematics Pure mathematics and Mechanics I offer these notes covering a wide range of problems with complete solutions In this way I hope to help students achieve a high score in their A level Maths examination Each Lesson covers theory and formula necessary for the chapter and step by step explanation of all solutions Problems are arranged in an ascending order of difficulty reaching A level standard

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