

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

(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)

# June 2013 C2 Paper Edexcel

**Keith Pledger, Dave Wilkins**



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