

Figure 1

Figure 1 shows a sketch of part of the curve with equation $y = \frac{10}{2x + 5\sqrt{x}}$, x > 0

The finite region R, shown shaded in Figure 1, is bounded by the curve, the x-axis, and the lines with equations x = 1 and x = 4

The table below shows corresponding values of x and y for $y = \frac{10}{2x + 5\sqrt{x}}$

x	1	2	3	4
У	1.42857	0.90326		0.55556

- (a) Complete the table above by giving the missing value of y to 5 decimal places.
- (b) Use the trapezium rule, with all the values of y in the completed table, to find an estimate for the area of R, giving your answer to 4 decimal places.
 (3)
- (c) By reference to the curve in Figure 1, state, giving a reason, whether your estimate in part (b) is an overestimate or an underestimate for the area of R.
 (1)
- (d) Use the substitution $u = \sqrt{x}$, or otherwise, to find the exact value of

$$\int_{1}^{4} \frac{10}{2x + 5\sqrt{x}} dx$$

(1)

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