

Figure 1

Figure 1 shows the finite region R bounded by the x-axis, the y-axis, the line  $x = \frac{\pi}{2}$  and the curve with equation

$$y = \sec\left(\frac{1}{2}x\right), \quad 0 \leqslant x \leqslant \frac{\pi}{2}$$

The table shows corresponding values of x and y for  $y = \sec\left(\frac{1}{2}x\right)$ .

x	0	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
У	1	1.035276		1.414214

- (a) Complete the table above giving the missing value of y to 6 decimal places.
- (b) Using the trapezium rule, with all of the values of y from the completed table, find an approximation for the area of R, giving your answer to 4 decimal places.

Region R is rotated through  $2\pi$  radians about the x-axis.

(c) Use calculus to find the exact volume of the solid formed.

(I)

(3)

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