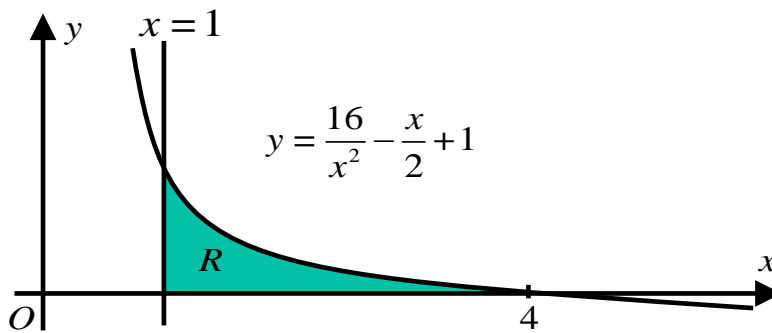


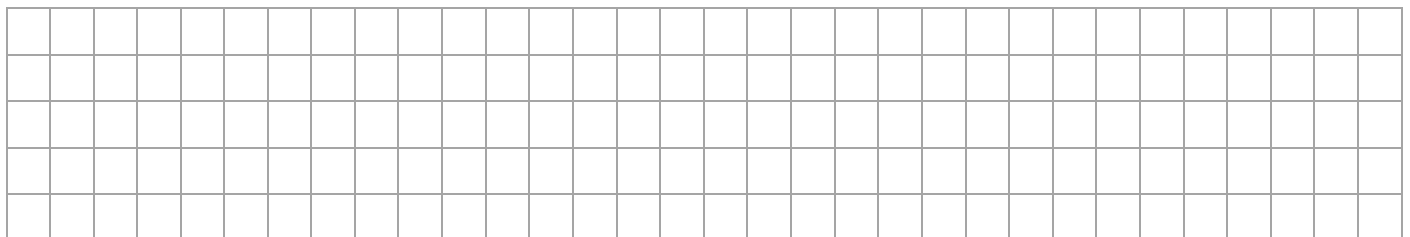
The graph of the curve with equation $y = \frac{16}{x^2} - \frac{x}{2} + 1, x > 0$ is shown below.



The finite region R , bounded by the lines $x = 1$, the x -axis and the curve, is shaded. The curve crosses the x -axis at the point $(4, 0)$.

(a) Complete the table with the values of y corresponding to $x = 2$ and 2.5 .

x	1	1.5	2	2.5	3	3.5	4
y	16.5	7.361			1.278	0.556	0



(b) Use the trapezoidal rule with all the values in the completed table to find an approximate value for the area of R , giving your answer to 2 decimal places.

