

9 A curve has equation $y = \frac{4}{\sqrt{x}}$.

(i) The normal to the curve at the point $(4, 2)$ meets the x -axis at P and the y -axis at Q . Find the length of PQ , correct to 3 significant figures. [6]

(ii) Find the area of the region enclosed by the curve, the x -axis and the lines $x = 1$ and $x = 4$. [4]