

The diagram shows part of the curve with equation $y = \frac{1}{(5x-4)^{\frac{1}{3}}}$ and the lines x = 2.4 and y = 1. The curve intersects the line y = 1 at the point (1,1).

Find the exact volume of the solid generated when the shaded region is rotated through 360° about the <i>x</i> -axis.

