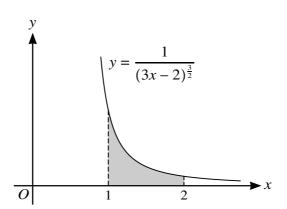
10 (a) Find $\int_{1}^{\infty} \frac{1}{(3x-2)^{\frac{3}{2}}} dx$. [4]

.....



The diagram shows the curve with equation $y = \frac{1}{(3x-2)^{\frac{3}{2}}}$. The shaded region is bounded by the curve, the *x*-axis and the lines x = 1 and x = 2. The shaded region is rotated through 360° about the *x*-axis.

(b) Find the volume of revolution. [4]

he	e normal to the curve at the point $(1, 1)$ crosses the y-axis at the point A.
)	Find the <i>y</i> -coordinate of <i>A</i> .