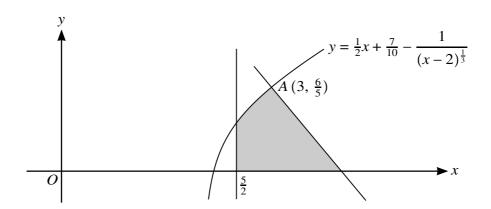
11



The diagram shows the line $x = \frac{5}{2}$, part of the curve $y = \frac{1}{2}x + \frac{7}{10} - \frac{1}{(x-2)^{\frac{1}{3}}}$ and the normal to the curve at the point $A\left(3, \frac{6}{5}\right)$.

Find the x-coordinate of the point where the normal to the curve meets the x -axis.	[5]
	,

(b)	Find the area of the shaded region, giving your answer correct to 2 decimal places.	[6]
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