

The diagram shows the curve with equation  $y = \sqrt{2x^3 + 10}$ .

(a)	Find the equation of the tangent to the curve at the point where $x = 3$ . Give your answer in th form $ax + by + c = 0$ where $a$ , $b$ and $c$ are integers.

(b)	The region shaded in the diagram is enclosed by the curve and the straight lines $x = 1$ , $x = 3$ and $y = 0$ .
	Find the volume of the solid obtained when the shaded region is rotated through $360^{\circ}$ about the <i>x</i> -axis. [3]

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