

The diagram shows part of the curve $y = \frac{2}{(3-2x)^2} - x$ and its minimum point M, which lies on the x-axis.

(a)	Find expressions for $\frac{dy}{dx}$, $\frac{d^2y}{dx^2}$ and $\int y dx$. [6]

Find, by calculation, the x -coordinate of M .	
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