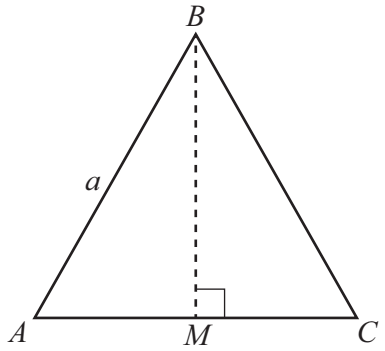
5 The normal to the curve $y = x^3 + \frac{3}{2}x^2 - 2x + 1$ at the point where $x = 0$ cuts the curve again at two other points.

Find the x-coordinates of these two points. [8]

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6 (a)



The diagram shows an equilateral triangle ABC with side a.
M is the midpoint of AC and angle $AMB = 90°$.

Use the diagram to find $\sec 30°$. [3]

(b) Show that $\dfrac{1}{\sec x - 1} + \dfrac{1}{\sec x + 1}$ can be written as $2\,\mathrm{cosec}\,x \cot x$. [4]

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