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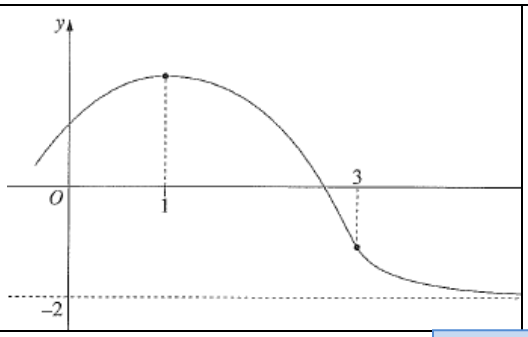
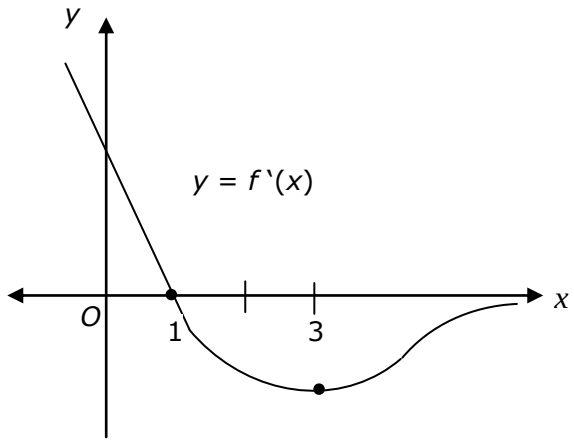
11	9c	The graph $y = f(x)$ in the diagram has a stationary point when $x = 1$, a point of inflexion when $x = 3$, and a horizontal asymptote $y = -2$. Sketch the graph $y = f'(x)$, clearly indicating its features at $x = 1$ and at $x = 3$, and the shape of the graph as $x \to \infty$.		3

State Mean: **1.28/3**



* These solutions have been provided by *projectmaths* and are not supplied or endorsed by the Board of Studies

Board of Studies: Notes from the Marking Centre

In the better responses, candidates drew the given graph and the graph of the derivative below it. Many candidates were able to show or state that the graph cuts the x-axis at $x = 1$. Some misinterpreted the question and thought they should clearly indicate the features of the given graph rather than the graphs they had drawn. Many candidates did not clearly indicate on their graph what was happening at important points, such as at $x = 3$ and as $x \to \infty$.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/

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