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| **Topic 5: Calculus** | **Graphical Relationships of Derivatives (AA Only)** |
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| 1. The following graph shows part of the graph of $y=g(x)$.
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| The graph has a local max at $B$ where $x=-2$, and a local min at $C$ where $x=1$. |
| 1. On the following axis, sketch the graph of $y=g'(x)$.
2. Write down the following in order from greatest to least: $g\left(0\right), g^{'}\left(2\right), g''(-2)$

Mark scheme:1.
2. $g^{'}\left(2\right), g\left(0\right), g''(-2)$
 | (4 marks)(2 marks)(3 marks)(2 marks)(A1) (A1) for each correct x-intercept (A1) for correct shape(A1) for a negative y-intercept(A2) |
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