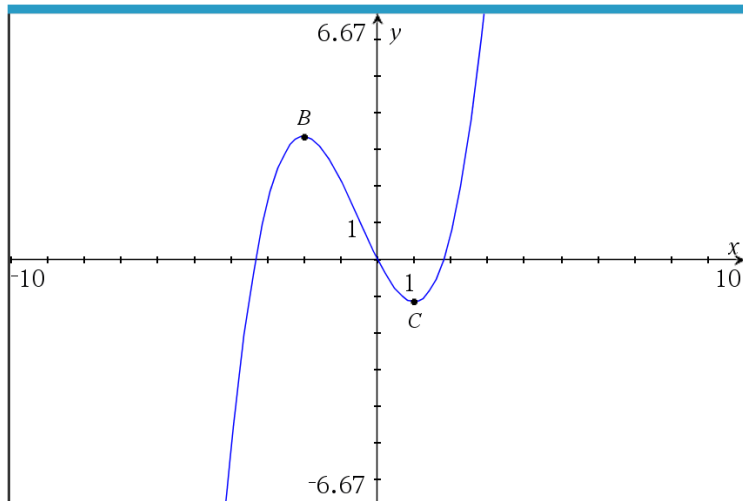


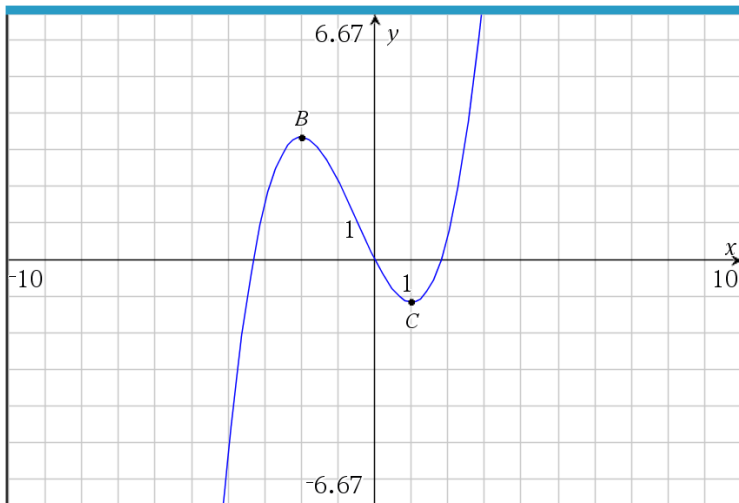


1. The following graph shows part of the graph of $y = g(x)$.



The graph has a local max at B where $x = -2$, and a local min at C where $x = 1$.

(a) On the following axis, sketch the graph of $y = g'(x)$. (4 marks)



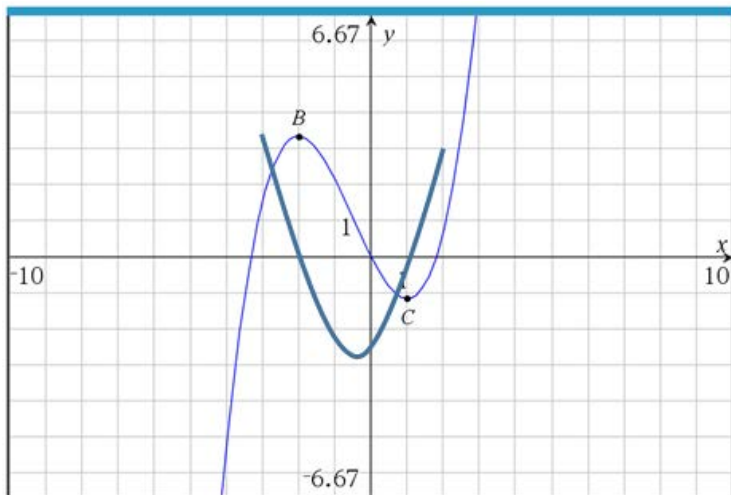
(2 marks)

(3 marks)

(b) Write down the following in order from greatest to least:
 $g(0), g'(2), g''(-2)$ (2 marks)

Mark scheme:

(a)



(A1) (A1) for each correct x-intercept
 (A1) for correct shape
 (A1) for a negative y-intercept

(b) $g'(2), g(0), g''(-2)$

(A2)