Graphing Relationships/Graphical Derivatives

IB® EXAM STYLE QUESTION

(4 marks)

Topic 5: Calculus

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).

- (2 marks) (3 marks) (3 marks) (3 marks)
- (b) Write down the following in order from greatest to least: g(0), g'(2), g''(-2) (2 marks)

6.67

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

Mark scheme:

-10



B

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

(A2)

10

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