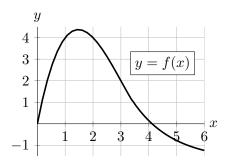
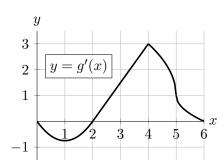
10. [9 points] The graph of the function f(x) and the graph of g'(x) (the derivative of the function g) are given below.





- a. [3 points] Rank these five quantities in order from least to greatest by filling in the blanks below with the options I–V.
  - I. the average rate of change of f(x) from x = 1 to x = 3
  - II. f'(3)
  - III. the slope of the tangent line to f(x) at x = 1
  - IV.  $\frac{f(5) f(0)}{5}$
  - V. the number 0

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- **b.** [2 points] On which of the following interval(s) is f(x) invertible? Circle all correct choices.
  - (0,2) (1,4) (2,6) NONE OF THESE
- **c.** [2 points] On which of the following interval(s) is g(x) increasing? Circle all correct choices.
  - (1,3) (2,5) (5,6) NONE OF THESE
- **d**. [2 points] At which value of x, for 0 < x < 6, is the slope of g(x) most negative?