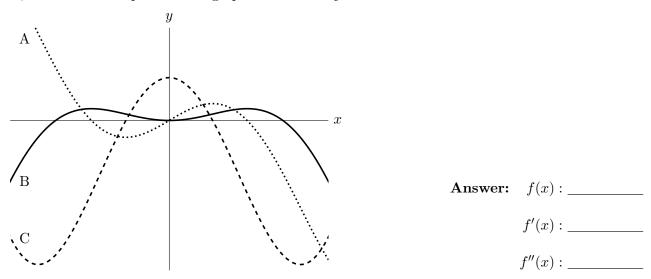
4. [4 points] Shown below are portions of the graphs of y = f(x), y = f'(x), and y = f''(x). Determine which graph is which, and then, on the answer lines below, indicate after each function the letter A, B, or C that corresponds to its graph. No work or justification is needed.



5. [7 points] The function p(x) is given by the following formula, where c and d are nonzero constants:

$$p(x) = \begin{cases} \frac{1}{3}x^3 - 9x + 1 & x \le 0\\ 2^x & 0 < x < 2\\ c + d(x - 2) & x \ge 2. \end{cases}$$

a. [3 points] Find one pair of values for c and d such that p(x) is differentiable at x = 2. Show your work.

Answer: $c = _$ and $d = _$

b. [4 points] For the values of c and d from part **a**., find the *x*-coordinates of all critical points of p(x) or write NONE if there are none. Show your work.