PROBLEM SET NO. 6 (DUE ON MONDAY, NOVEMBER 17 AT 4:00 PM)

- **Problem 1**: Below are the graphs of three functions $y = f(x)$. In just one of the graphs, it is true for all x that $f^{(3)}(x) > 0$. Which is the graph? Explain why the other two graphs could not possibly satisfy the condition $f^{(3)} > 0$ for all x.