9. (4 points) Let f, g be functions such that $f''(x) > 0$ and $g''(x) < 0$ for all x. In how many points can the graphs of f and g intersect? Circle all possible answers.

(i) no points

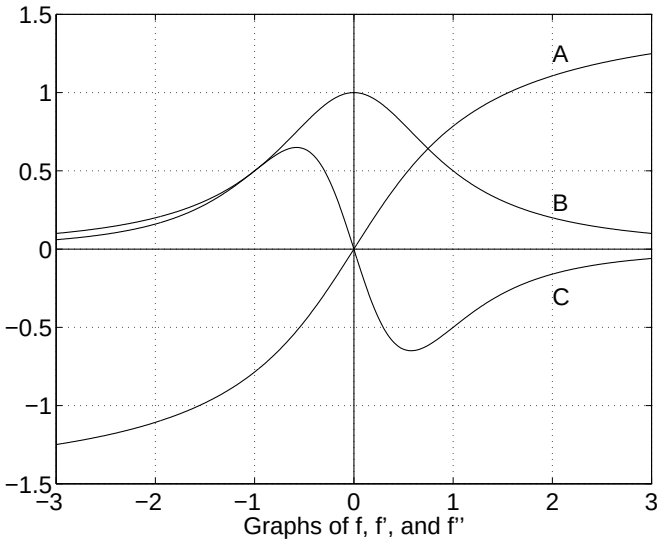
(ii) 1 point

(iii) 2 points

(iv) 3 points

(v) infinitely many points

10. (7 points) (a) The figure below shows graphs of a function f and its first and second derivatives, f' and f''. Identify by the label on the graph which function is f, which is f', and which is f''.



A is the graph of ____

B is the graph of ____

C is the graph of ____

(b) Give a clear explanation of your reasoning for the choices you made in part (a).