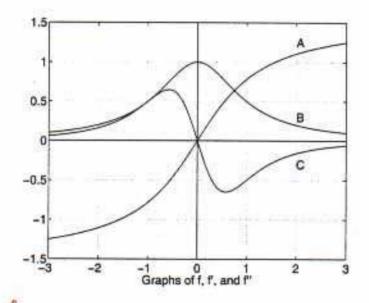
9. (4 points) Let f, g be functions such that f''(x) > 0 and g''(x) < 0 for all x. In how many points can the graphs of f and g intersect? Circle all possible answers.

(i) no points
(ii) 1 point
(iii) 2 points
(iv) 3 points

NPC

(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 \neq
- B is the graph of 🕇
- C is the graph of f
- (b) Give a clear explanation of your reasoning for the choices you made in part (a).

Grack A cannot be the devoctor any other trenction since all functions are directioning for 2000. Hus A ist. Since A is increasing for all x, + & is Gostai for all x, B is t. Gragh C is Gostai saley & is increasing (~ zother A is concase 200) ~ C is negative increasing (~ zother A is concase 200) ~ C is negative " & is decrising (& roken A is concern dours,