- 7. [6 points] Consider the function $W(t) = 3\ln(\sin(t)^2 + 2)$. Write down the limit definition of $W'(\pi)$. (You do not need to estimate or compute the derivative.)
- 8. [9 points] The three graphs labeled A, B, and C below depict a function g along with its first and second derivatives (g' and g''). Determine which is which.



Your answer to parts (a)–(c) should be a single legible capital letter (A, B, or C).

- **a**. [2 points] The graph of g is labeled _____.
- **b**. [2 points] The graph of g' is labeled _____.
- **c**. [2 points] The graph of g'' is labeled _____.
- d. [3 points] Briefly explain your reasoning.