

Math 135, Calculus 1, Fall 2020

Weekly Quiz 12-09

Problem 1. Suppose your company's profits for the past year look like the following graph:



Which of the following statements **best** matches the company's performance?

- (i) We're losing money, and it's getting worse as time goes on.
- (ii) The outlook is great: The growth rate keeps increasing.
- (iii) We're doing well, but our growth rate is leveling off.
- (iv) We're losing money, but not as quickly as before.
- (v) Business had been picking up, but now it's cooling off.
- (vi) Business had been cooling off, but now it's picking up.

Problem 2. Sketch the graph of a function $f(x)$ with $f(0) = 0$ that has the given sign charts for $f'(x)$ and $f''(x)$.

