

# 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  $f''(x)$ .

