

Name: _____

Math 1300-005 - Spring 2017

Quiz 4 - 2/10/17

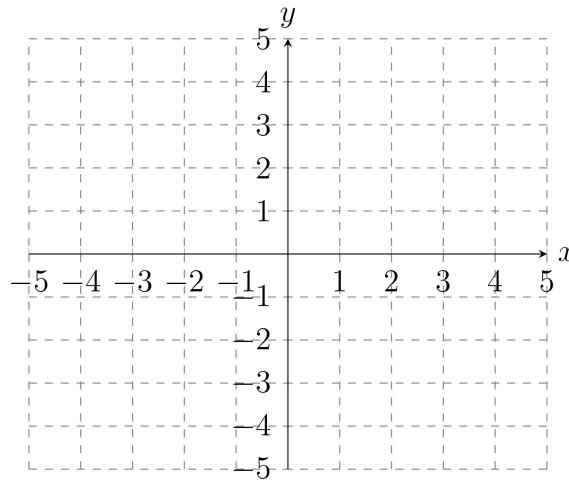
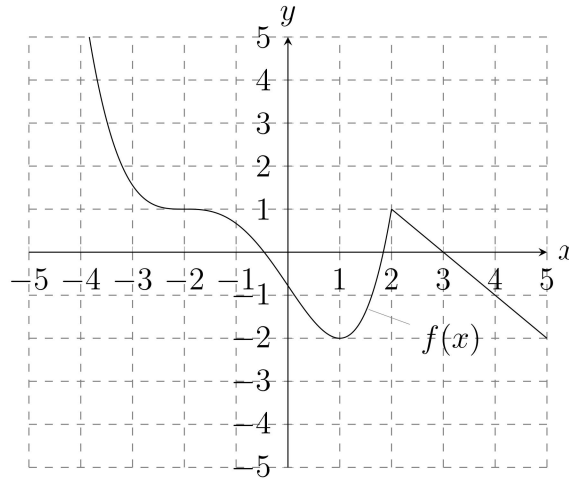
On my honor, as a University of Colorado at Boulder student, I have neither given nor received unauthorized assistance on this work.

Signature: _____

Guidelines: You are permitted to use notes, the book, in-class worksheets/solutions, and your classmates on this quiz. Computers and graphing technology of any kind, including calculators, are not allowed (exceptions made for those who have an e-book). Please show all work and clearly denote your answer.

1. Using the *limit definition of the derivative*, compute $f'(x)$ for $f(x) = \sqrt{1+2x}$. Do f and f' have the same domain? Why or why not?

2. The graph of a function f is given. On the axes below, sketch a graph of f' .



3. The figure shows graphs of f , f' , f'' , and f''' . Identify each curve by stating which function corresponds to which letter.

