

Group Work #3: Sketching a graph of f using information given about f , f' , and f''

Math 163A Sections 02 and 04 (Barsamian) Thursday, October 20, 2005

1 Sketch the graph of a function f that has the following properties:

- f is positive
- f' is negative
- f'' is positive

2 Sketch the graph of a function f that has the following properties:

- f is negative
- f has a vertical asymptote at $x = 5$
- f has a horizontal asymptote at $y = -1$
- f' is negative on the interval $(-\infty, 5)$
- f' is positive on the interval $(5, \infty)$
- f'' is negative

3 Sketch the graph of a function f that has the following sign charts:

