

This quiz is worth 10 points, and you have 10 minutes to complete it.

Calculators are NOT allowed today.

1. (10 pts) The graph given on the second set of axes below is the graph of the derivative  $f'$  of some function  $f$ . Sketch a possible graph of  $f$  on the first set of axes, and a possible graph of  $f''$  on the third set of axes.

Various guidelines: Be sure that your graphs all line up, that the points at  $x = 0$ ,  $x = 2$ , and  $x = 4$  are clearly marked on each graph, and that the graphs of  $f$  and  $f''$  don't contradict each other. You might find it useful to make some number lines as part of your scratch work, but I won't grade those.

