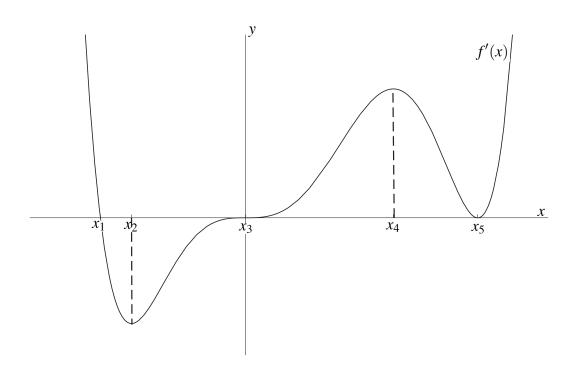
1. (12 points) The graph below is a plot of f'(x) (the *derivative* of f). Use the graph to answer questions about the function f.



- (a) What are the critical points of f? x_1, x_3, x_5
- (b) For what value(s) of x does f have a local maximum? x_1
- (c) For what value(s) of x does f have a local minimum? x_3
- (d) What are the inflection points of f? x_2, x_4, x_5
- (e) On what interval(s) is f concave up? $[x_2, x_4], [x_5, \infty)$
- (f) If f is a polynomial, what is the minimal degree of f?