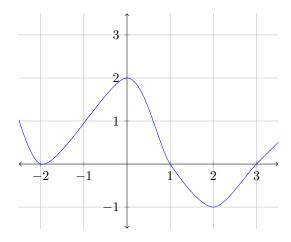
Please show **all** your work! Answers without supporting work will not be given credit. Write answers in spaces provided.

Name:_

1. Given the graph of f'(x) below, answer the following question for f(x).



- (a) [1 pt] Critical Number(s):
- (b) [1 pt] Increasing Interval(s):
- (c) [1 pt] Decreasing Interval(s):
- (d) [1 pt] Relative Maximum Occurs at x =
- (e) [1 pt] Relative Minimum Occurs at x =
- $(f) \ \ [1\ pt]$ Concave Up Interval(s):
- $(g)\ [1\ pt]$ Concave Down Interval(s):
- (h) [1 pt] Inflection Point(s) Occurs at x =
- 2. [4 pts] Find the x-coordinate for the absolute max. of $f(x) = -x^3 + 12x = 0$ over the interval [-3, 5].