

Name _____

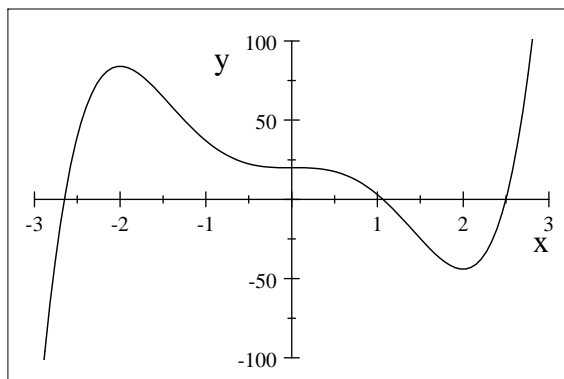
Lab Section: _____

MATC 1200, Calculus for Business and Social Sciences

Lab 6 The First Derivative: Week of May 4, 2009

Pre-Lab Question

1. Let $f(x) = 3x^5 - 20x^3 + 20$.



Graph of $f(x)$

- What is the domain of $f(x)$? Express in interval format.
- Find $f'(x)$.
- Find all x values where the tangent line to $f(x)$ is horizontal. You need to set up and solve an equation involving the derivative.
- On the graph of $f(x)$ label any relative minimum points (low points), including both the x and y coordinates. (Do not consider the endpoints.)
- On the graph of $f(x)$ label any relative maximum points (high points), including both the x and y coordinates. (Do not consider the endpoints.)