

## Quiz 11 - MATH 151

DATE: Week 14, April 21 - 25

INSTRUCTOR: George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

1. Use the first derivative test to find the relative minima and relative maxima of the function  $f(x) = \frac{1}{5}x^5 - x$ . (5 points)
2. Make the sign table (signs of first derivative, signs of second derivative and arrows for  $f$ ) for the function  $f(x) = (x - 1)^3(x - 5)$ . (5 points)