MATH 105 QUIZ 10 November 10, 2004

Name: ________________________________

Your grade is based on the process as well as the final result. Show all your steps clearly so you will be eligible for the most partial credit. You may use a calculator, but no notes, books, or other students. Good luck!

1.) Given the function \( y = f(x) = x^{10} - 10x \), on the interval \( 0 \leq x \leq 2 \),

a.) (5 pts.) use calculus to find the value(s) of \( x \) for which \( f(x) \) has a local maximum or minimum. Indicate which are maxima and which are minima.

b.) (5 pts.) find the value(s) of \( x \) for which \( f(x) \) has a global maximum or global minimum.