## QUIZ 7 - MATH 151 YOUR NAME:\_\_\_\_

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. Find the following limits:

(a) 
$$\lim_{x \to 0} \frac{1 - e^{-2x}}{\sec x}$$

(b)  $\lim_{x\to 0^+} (\sin x \ln x)$ 

2. Find the critical numbers of the function  $f(x) = \sqrt[3]{x^2 - x}$ .

3. Find the absolute maximum and the absolute minimum of the function  $f(x) = x^3 - 6x^2 + 9x + 2$ in [-1, 4].