

**Written Homework Problems §4.3**

16 problems for 32 points

§4.3 #91,93,95,103,104,106,108,109,111,114,119\*,120\*,126\*,130,131

\* For these problems, find any local and/or absolute maxima **and** minima over the specified interval.

**Problem A:** For each function below, find any local and/or absolute maxima and minima over the specified interval.

(i)  $f(x) = \frac{x}{x^2+1}$  on  $[-2, 2]$ . (Note  $f'(x) = \frac{-(x^2-1)}{(x^2+1)^2}$ .)

(ii)  $g(x) = x^{2/3}$  on  $[-1, 1]$ .