

Last name: _____

First name: _____

Section: _____

Question:	1	2	Total
Points:	10	10	20
Score:			

Instructions: You must answer all the questions below and give your solutions to the TA at the end of the recitation. Write your solutions on a different sheet of paper. No late worksheet will be accepted.

_____ **QUESTION 1** _____ **(10 pts)**

Find the critical points of the function $f(x) = \frac{2}{5}x^{5/2} - 2\sqrt{x}$.

QUESTION 2**(10 pts)**

Find the local maximum and minimum of the function $f(x) = x^4 - 2x^2 + 3$ (Use the first derivative test or the second derivative test).