Math 108
Spring 2024
Dr. Lily Yen

Quiz 5 Show all your work

Name:	
Number:	
Signature:	

Score: ___/10 **Problem 1**: Let the derivative of f be defined by $f'(x) = (2x+3)(x-1)^2$.

- a. Draw f'.
- b. List all intervals where the original function f is INCREASING.
- c. List all inflection points of f.
- d. List all intervals where the graph of f is concave DOWN.

Problem 2: Draw the following function including all important features like local extrema, inflection point(s), and asymptotic behaviour. Remember to take appropriate limits to support your claim.

$$y = \frac{x^3}{4 - x^2}$$