Quiz #7 Math 101 131

Name:	I.D.		

Q27/5.3 Consider the function $f(x) = 2x + 3x^{\frac{2}{3}}$ Follow the steps to sketch the Graph of the function.

1) Find y-int. then x-int. then check if the graph above the x-axis or below.

f _____

2) Find critical points then check if the graph increasing or decreasing , then find relative extreme

f' _____

3) Check the behavior of the graph as $x \to \infty$ and $x \to -\infty$

4) Find asymptotes if any

5) Check if the graph concave up or down then find inflection points if any

f'' _____

6) Is there a cusp or a vertical tangent

7) Sketch the graph