

King Fahd University Of Petroleum and Minerals
Department of Mathematical Sciences
Math 101 – 08

St Name:

Term 042

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Quiz # 4

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Give the following information (If exist) in the assigned space about the graph of the function

$$f(x) = \frac{1}{2}x^{4/3} - 2x^{1/3}$$

-The critical numbers are $x =$ _____ .

-Relative maximum at $x =$ _____ .

-Relative minimum at $x =$ _____ .

-Inflection point(s) at $x =$ _____ .

-The function is increasing on the interval(s) _____

-The function is decreasing on the interval(s) _____

-The function is concave up on the interval(s) _____

-The function is concave down on the interval(s) _____

-Sketch the graph

Note that

x	-2	-1	0	1	2
$f(x)$	$f(-2) \approx 4$	2.5	0	-1.5	≈ -1.3