

CURVE SKETCHING

Section 3.6

Name: _____

Date: _____

Complete the following table. Sketch the functions based on the information for the table.

Function	$y = 3x^4 + 4x^3$	$Y = \frac{x^2 - 2x + 4}{x - 2}$	$y = 3x^{\frac{2}{3}} - 2x$	$Y = \frac{\cos(x)}{1 + \sin(x)}$
First Derivative				
Second Derivative				
x-intercept(s)/zeros				
y-intercept				
Vertical Asymptotes				
Horizontal Asymptotes				

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Critical numbers				
Interval(s) increasing/Decreasing				
Extrema				
Possible Points of inflection				
Concavity UP/Down				
Sketch the function				