

MTH 380 handout section 5-3

Let's put all the information together to sketch curves.

- 1.) find all vertical asymptotes
- 2.) find horizontal or slant asymptotes
- 3.) find x and y intercepts
- 4.) take the first derivative and find the critical points
- 5.) take the second derivative and find the potential inflection points
- 6.) make a sign chart involving the function, the function's derivative, and the function's second derivative.
- 7.) draw intercepts, asymptotes, maximums, minimums, and inflection points
- 8.) draw the curve