

## Curve Sketching

p. 278 - 286 (4.3)

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1. Find domain & range
  2. Find  $x/y$  intercepts and Vert/Horz asymptotes
  3. Find criticalpoints and intervals where increasing & decreasing
  4. Determine local max/min points
  5. Determine concavity and find points of inflection
  6. Sketch in the curve
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1977 AB2 Consider the function  $f$  defined by  $f(x) = (x^2 - 1)^3$ .

- a) For what values of  $x$  is  $f$  increasing?
- b) Find the  $x$  and  $y$  coordinates of the rel. max and rel. min. Justify.
- c) For what values of  $x$  is the graph of  $f$  concave up?
- d) Sketch the graph of  $f$ .