Recall the guidelines:

 A. domain
 B. intercepts
 C. symmetry
 D. asymptotes
 E. increase/decrease (and critical numbers)
 F. local maxima/minima
 G. concavity (and inflection points)
 H. sketch the graph

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1. Sketch the graph by applying the guidelines:

$$y = \frac{1}{x^2 - 4}$$

2. Sketch the graph by applying the guidelines:

$$y = x(x - 4)^3$$

3. Sketch the graph by applying the guidelines:

$$y = \frac{x}{\sqrt{x^2 + 1}}$$