

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:

$$y = \frac{\sin x}{2 + \cos x}, \quad 0 \leq x \leq 2\pi$$

2. Sketch the graph by applying the guidelines:

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

3. Sketch the graph by applying the guidelines:

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