

Curve Sketching (Part 1)

$$\underline{f(x)}$$

Domain

x - intercepts

y - intercept

Vertical Asymptote

Hole/Deleted Point

Horizontal Asymptote

Slant/Oblique Asymptote

$$\underline{f'(x)}$$

Domain

Critical Points

Maximum/Minimum

Increasing/Decreasing

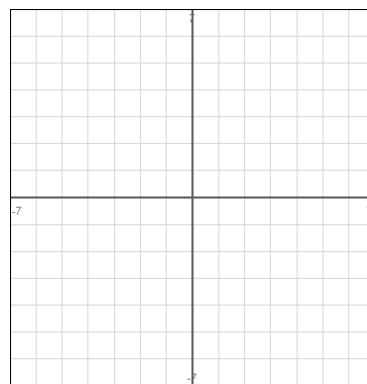
$$\underline{f''(x)}$$

Inflection Points

Concave Up/Concave Down

Directions: Sketch the graph of each function.

1. $f(x) = \frac{2x}{x^2 - 1}$



2. $f(x) = 3x^4 + 4x^3$

