4.6 A Summary of Curve Sketching

Name: Date: June 9, 2015

P 2. Analyze and sketch a graph of

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

Label any intercepts, relative extrema, points of inflection, and asymptotes.

P 4. Analyze and sketch a graph of
$$y = \frac{x^2 + 1}{x^2 - 4}$$
Label any intercepts, relative extrema, points of inflection, and asymptotes.

P 23. Analyze and sketch a graph of

$$y = e^{3x}(2 - x)$$

Label any intercepts, relative extrema, points of inflection, and asymptotes.

P 30. Analyze and sketch a graph of

$$h(x) = 7 \arctan(x + 1) - \ln(x^2 + 2x + 2)$$

Label any intercepts, relative extrema, points of inflection, and asymptotes.

P 46. Analyze and sketch a graph of

$$y = 2(x - 2) + \cot x, \ 0 < x < \pi$$

Label any intercepts, relative extrema, points of inflection, and asymptotes.

P 49. Analyze and sketch a graph of

$$g(x) = x \tan x, \quad -\frac{3\pi}{2} < x < \frac{3\pi}{2}$$

Label any intercepts, relative extrema, points of inflection, and asymptotes.