Advanced Math

2-7

(Day 2)
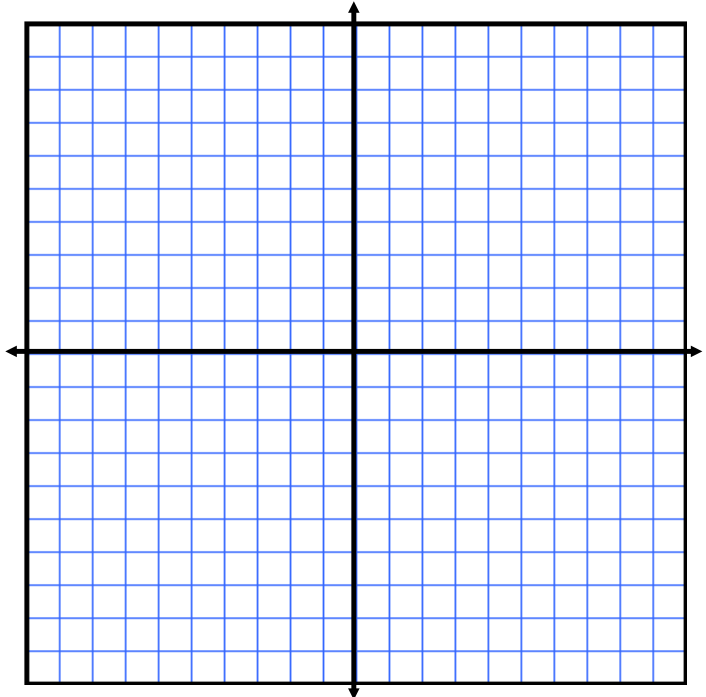
Slant Asymptotes

<u>slant asymptotes</u>: Given the rational function $f(x) = \dfrac{p(x)}{q(x)}$

        a:

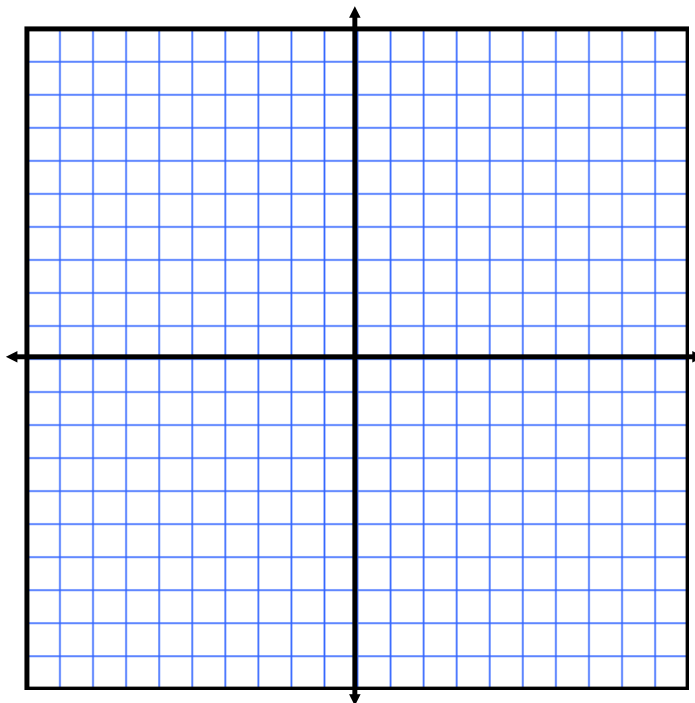Sketch the graph of the rational function. As sketching aids, use zeros, y-intercepts, asymptotes, and symmetry.

73) $f(x) = \dfrac{x^3}{x^2 - 1}$

Sketch the graph of the rational function. As sketching aids, use zeros, y-intercepts, asymptotes, and symmetry.

*) $f(x) = \dfrac{x^2 + x - 6}{x^2 + 5x + 6}$