

Advanced Math

2-7

(Day 1)

Rational Functions and Asymptotes

Asymptote Rules

given the rational function $f(x) = \frac{p(x)}{q(x)}$

vertical asymptotes:

hole:

horizontal asymptotes:

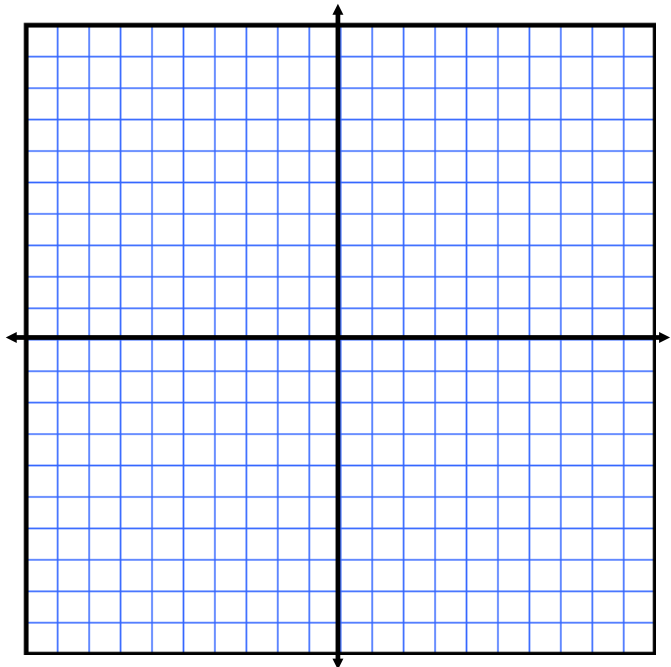
a:

b:

c:

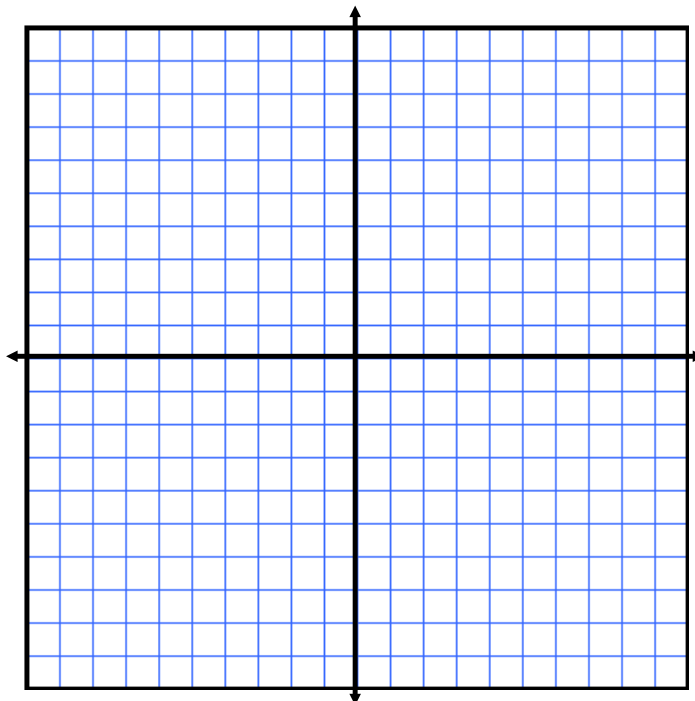
Sketch the graph of the rational function. As sketching aids, use zeros, y-intercepts, vertical asymptotes, horizontal asymptotes, and symmetry.

37) $C(x) = \frac{5 + 2x}{1 + x}$



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

$$49) C(x) = \frac{3x}{x^2 - x - 2}$$



Assignment
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