

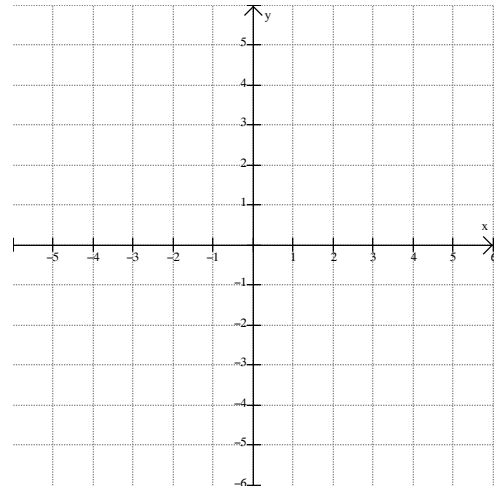
Aim: How do we graph rational functions? (Day 2)

Find asymptotes, intercepts, check for symmetry, and graph.

1. $f(x) = \frac{3-x}{2-x}$

Table of values

x	y



Domain:

VA:

HA:

y-intercept:

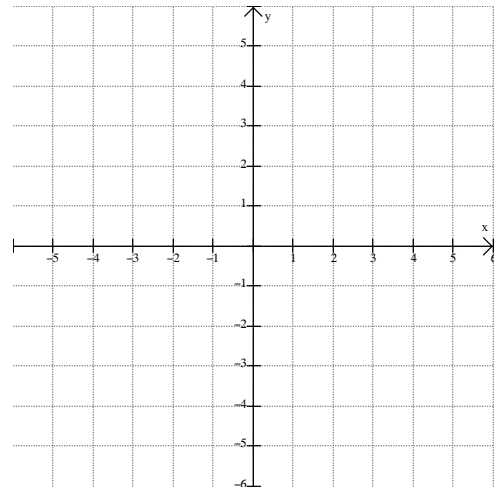
x-intercepts:

Symmetry:

2. $h(x) = \frac{4}{x^2+1}$

Table of values

x	y



Domain:

VA:

HA:

y-intercept:

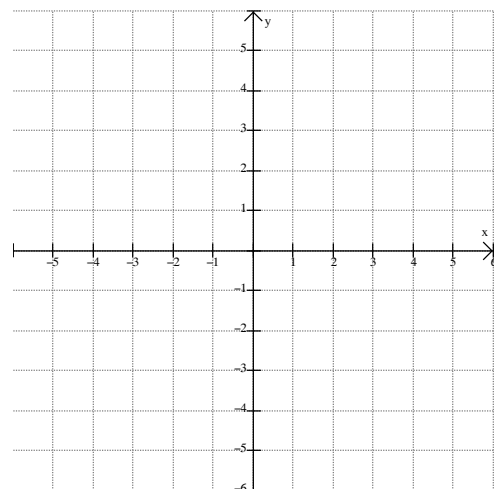
x-intercepts:

Symmetry:

3. $g(x) = \frac{x^2}{x^2-4}$

Table of values

x	y



Domain:

VA:

HA:

y-intercept:

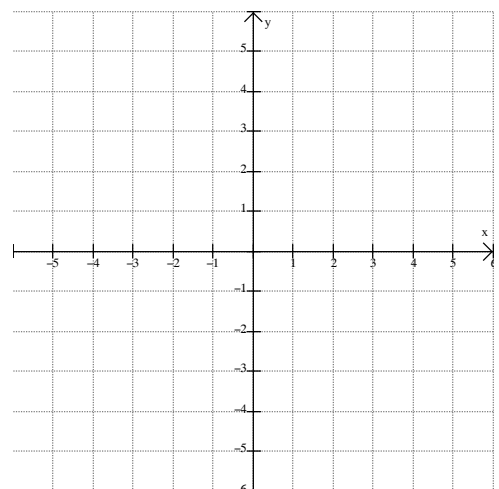
x-intercepts:

Symmetry:

4. $f(x) = \frac{3x-3}{2x+3}$

Table of values

x	y



Domain:

VA:

HA:

y-intercept:

x-intercepts:

Symmetry:

HW38

• Sketch each rational function by hand (use graph paper):

(a) $g(x) = \frac{1}{3-x}$ (b) $f(t) = \frac{1-2t}{t}$ (c) $f(x) = \frac{x^2}{x^2+9}$ (d) $g(x) = \frac{x}{x^2-9}$