

Asymptotes (#38)

List the domain, all asymptotes (if any), holes, and x-intercepts, and graph the function.

1. $f(x) = \frac{2x-6}{x+4}$

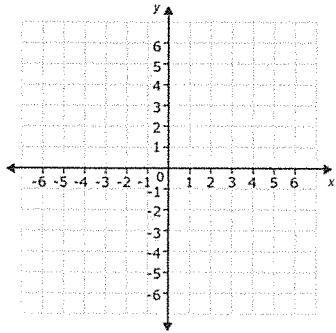
Domain:

VA:

HA:

Holes:

x-intercepts:



2. $f(x) = \frac{x-1}{x^2-4x+3}$

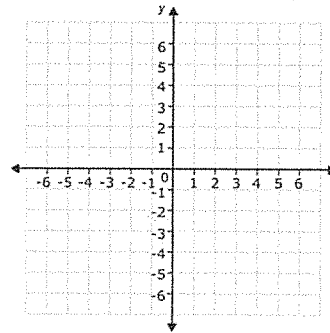
Domain:

VA:

HA:

Holes:

x-intercepts:



3. $f(x) = \frac{x^2+5x+6}{2x^2-18}$

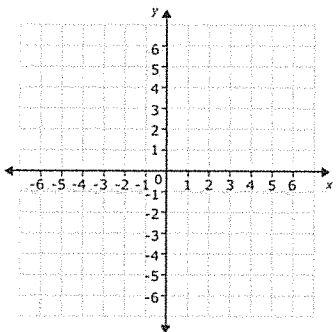
Domain:

VA:

HA:

Holes:

x-intercepts:



4. $f(x) = -1 - \frac{1}{(x-2)^4}$

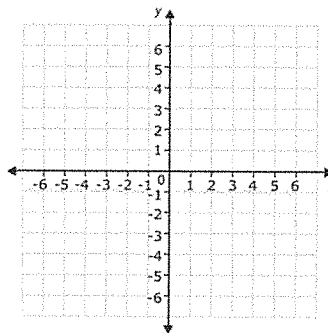
Domain:

VA:

HA:

Holes:

x-intercepts:



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

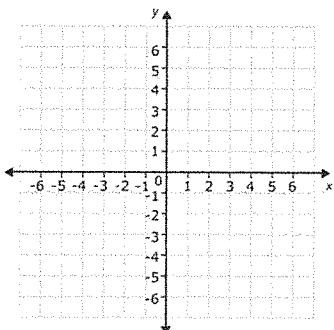
Domain:

VA:

HA:

Holes:

x-intercepts:



6. $f(x) = \frac{5x^2-10x}{x^2-3x}$

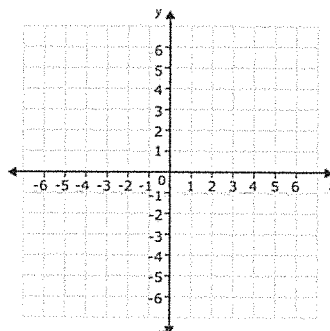
Domain:

VA:

HA:

Holes:

x-intercepts:



$$7. f(x) = \frac{1-x}{2x-3} + 1$$

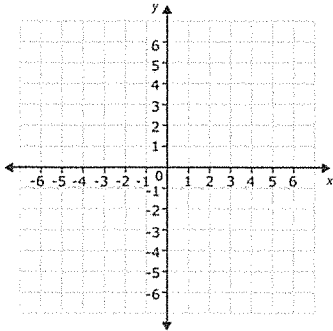
Domain:

VA:

HA:

Holes:

x-intercepts:



$$8. f(x) = \frac{2x^2-3x}{x}$$

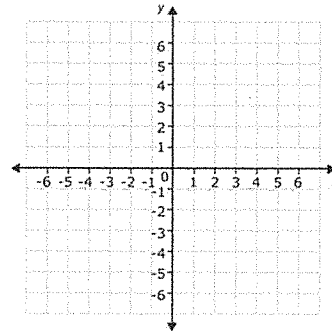
Domain:

VA:

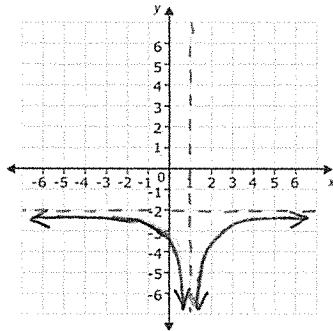
HA:

Holes:

x-intercepts:



9.



Domain:

VA:

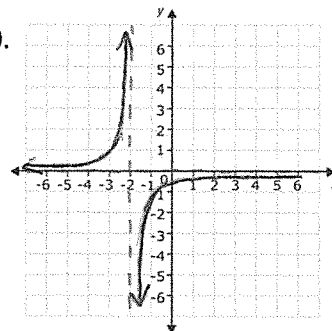
HA:

Holes:

x-intercepts:

$$f(x) =$$

10.



Domain:

VA:

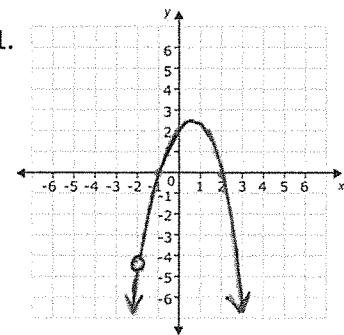
HA:

Holes:

x-intercepts:

$$f(x) =$$

11.



Domain:

VA:

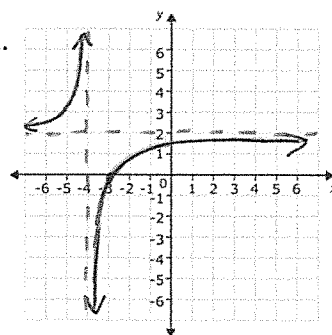
HA:

Holes:

x-intercepts:

$$f(x) =$$

12.



Domain:

VA:

HA:

Holes:

x-intercepts:

$$f(x) =$$