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

$(x-1)(x-2)$

VA: $x = 1$ ~~$x = 2$~~

HA: $y = 2$

Holes: $(2, 8)$

Intercepts: y-int: -4

x-int: -2

$2x^2 - 8 = 0$

$2x^2 = 8$

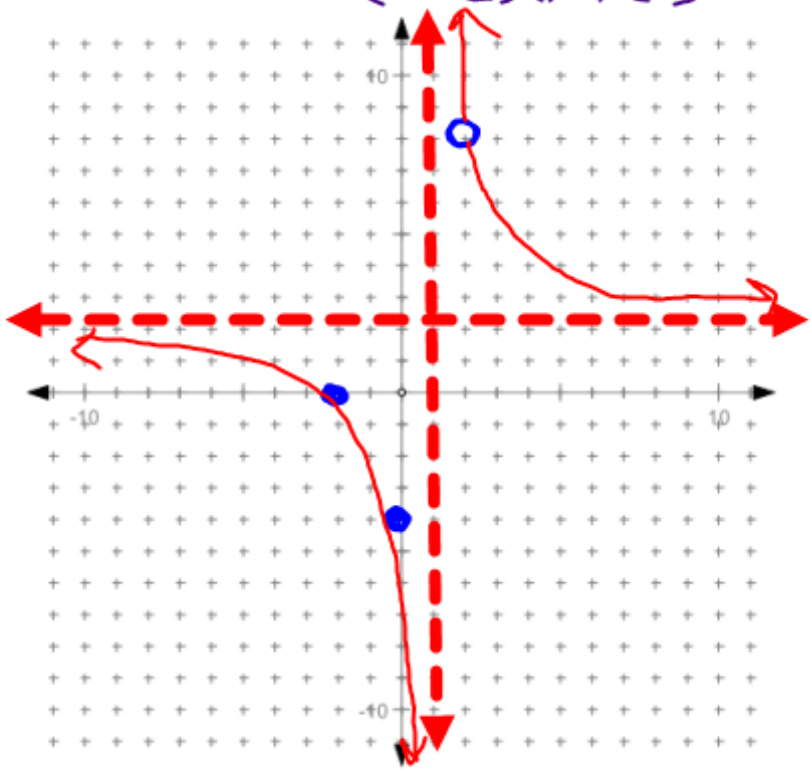
$x^2 = 4$

~~$x = 2$~~ or -2

$2x^2 - 8$

$2(x^2 - 4)$

$2(x-2)(x+2)$



$\frac{2(x-2)(x+2)}{(x-2)(x-1)} = \frac{2(4)}{2(2+2)} = \frac{8}{(2-1)} = \frac{8}{1}$

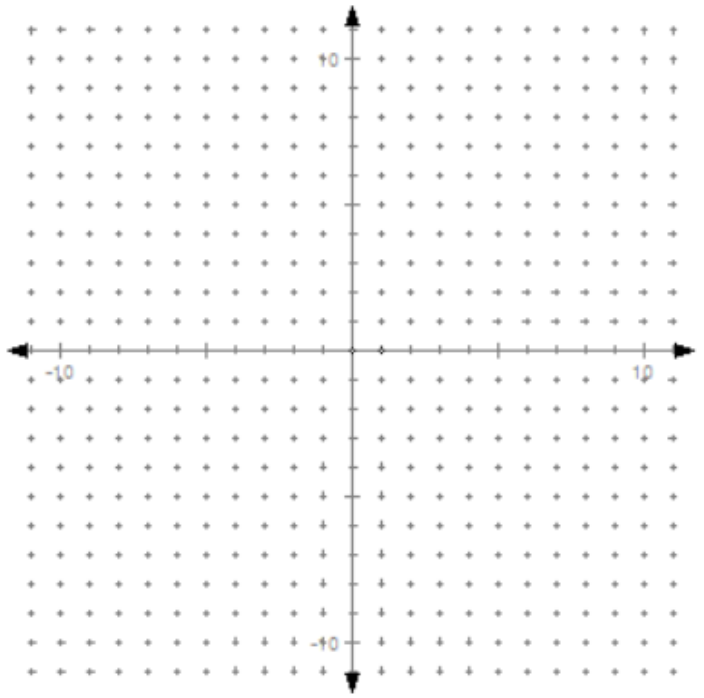
Graphing Activity

You will get 1 problem at a time and earn 25 points per problem.

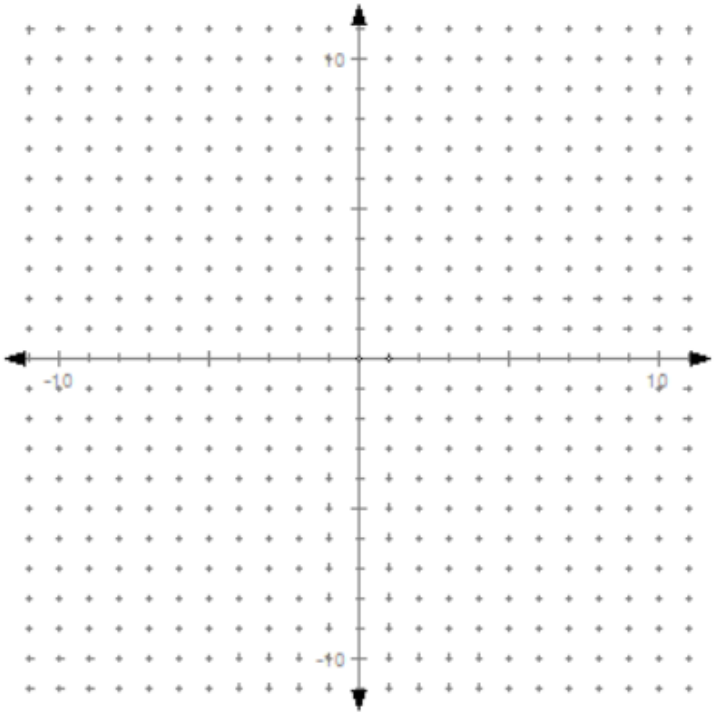
When you finish a problem, you will turn it in and receive a new problem.
You will not be given a new problem if the one you turn in is not complete!

Today's work is worth a total of 100 points. You will only earn points for the problems you complete!!

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

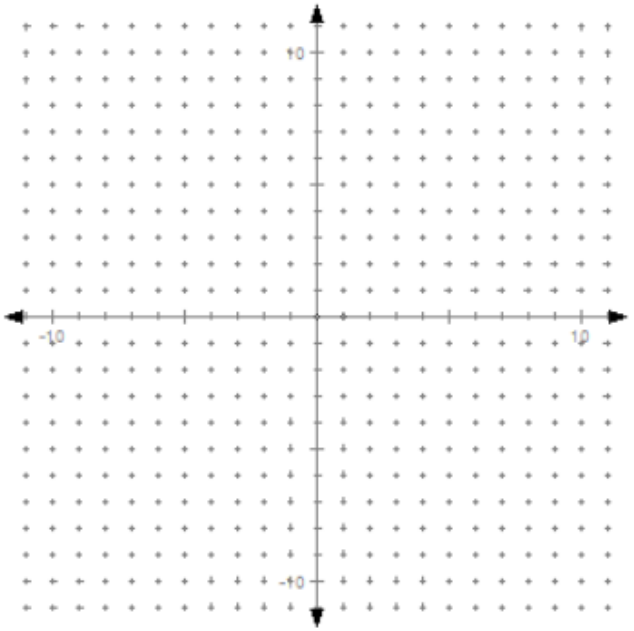


3. $f(x) = \frac{2x+4}{x-1}$



Find the VA, HA, SA and intercepts of the rational function. Use this information to graph the rational function.

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



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