a) $f(x) = \frac{2x+1}{x^2-9}$ $\frac{2x+1}{(x+3)(x-3)}$

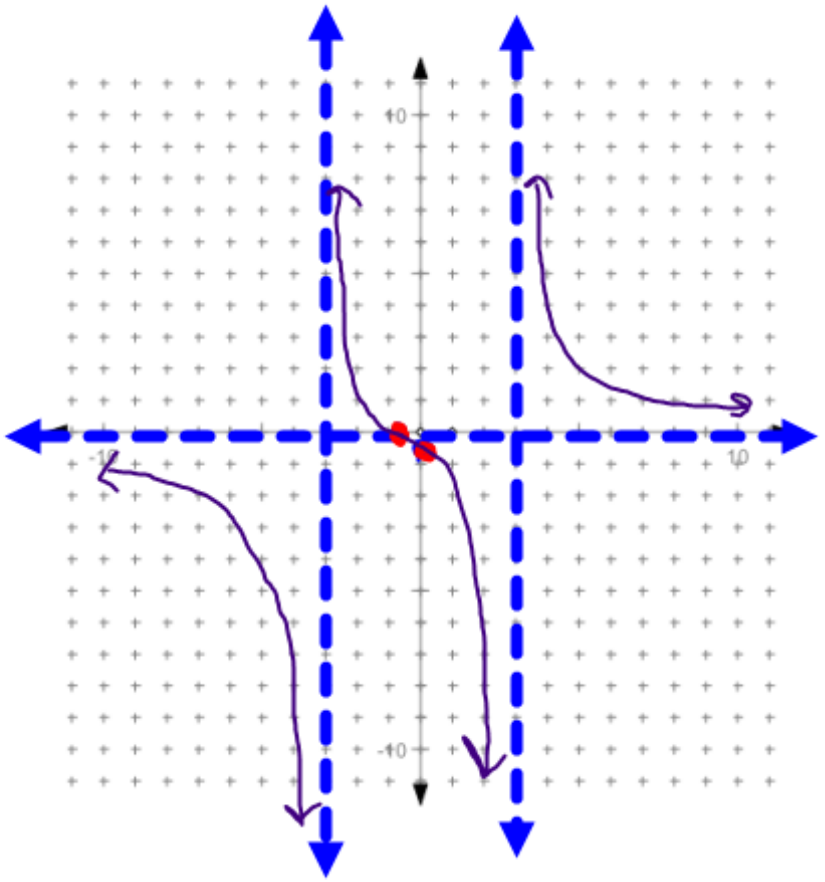
VA: $x = 3$ or -3

HA: $y = 0$

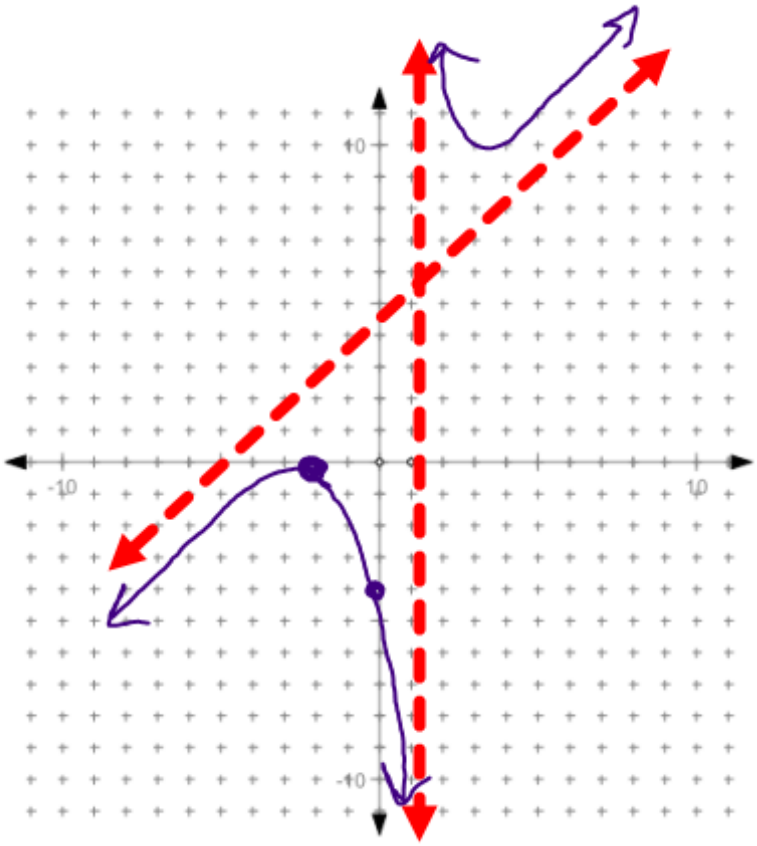
SA: N/A

Intercepts: x-int: $-\frac{1}{2}$ or $-.5$

y-int: $-\frac{1}{9}$ or $-.11$



b) $\dfrac{x^2+4x+4}{x-1}$ $(x+2)(x+2)$



VA: $x=1$

~~HA:~~

SA: $y=x+5$

Intercepts: y-int: -4

x-int: -2

$x=-2$

$x=-2$

-2 multiplicity of 2

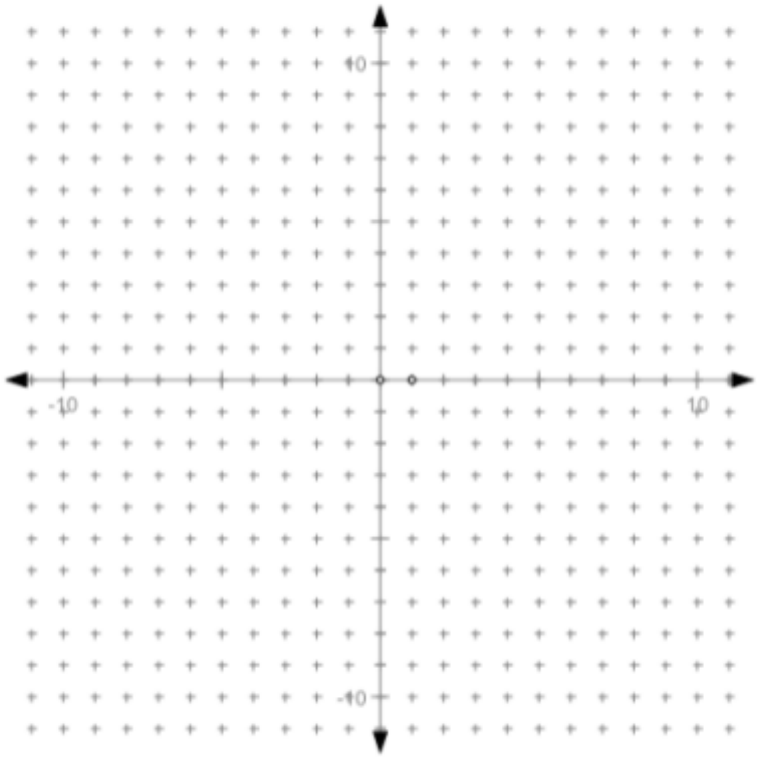
c) $f(x) = \dfrac{x+1}{x^2+4x+3}$

VA:

HA:

SA:

Intercepts:



We're going to get 4 new problems today.

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!!