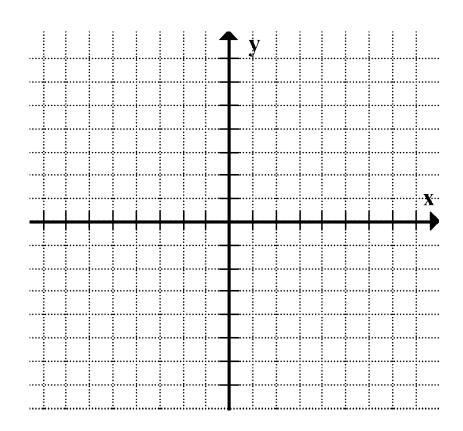
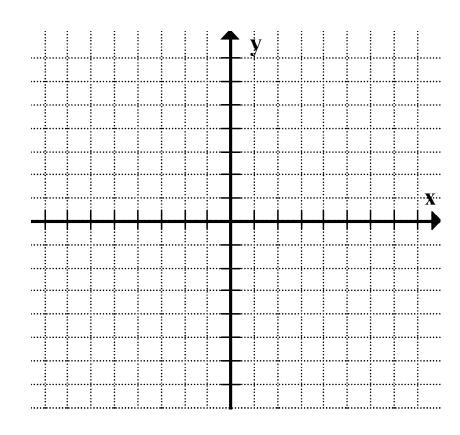
C12 - 9.1 - Vertical/Horizontal Asymptote HW

$$y = \frac{1}{x - 2}$$

y

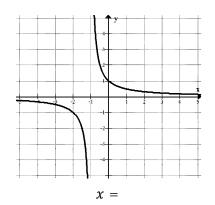


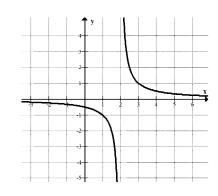
X	Υ
-100	
-10	
-9	
-8	
2	
8	
9	
10	
100	

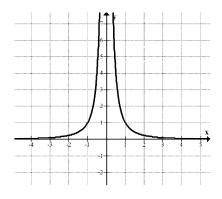


C12 - 9.1 - Vertical Asymptote HW

Find the equation of the Vertical Asymptote







Find the equation of the Vertical Asymptote

$$f(x)=\frac{1}{x}$$

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

$$f(x) = \frac{1}{x+3}$$

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

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

x =

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

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

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

9.4 Find the VA's and/or Holes

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

$$f(x) = \frac{x^2 + 6x + 5}{x + 5}$$

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

$$f(x) = \frac{x^2 + 6x + 5}{x + 5} \qquad f(x) = \frac{x^2 - 4x}{2x} \qquad f(x) = \frac{2x^2 + 7x + 6}{x + 2}$$

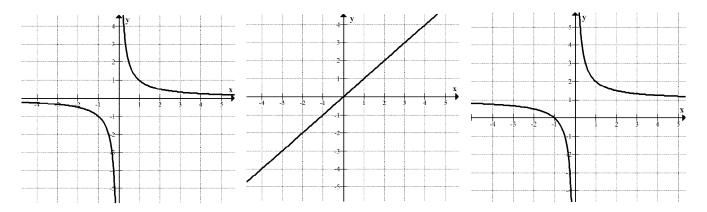
$$f(x) = \frac{x+3}{x^2-9}$$

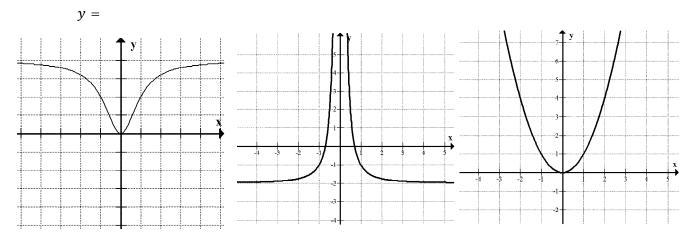
$$f(x) = \frac{x^2}{x^2 - 4}$$

$$f(x) = \frac{x^2}{x^2 - 4} \qquad \qquad f(x) = \frac{2x^2 - 5x - 3}{2x^2 + 5x + 2}$$

C12 - 9.2 - Horizontal Asymptote HW

Find the equation of the Horizontal Asymptote





Find the equation of the Horizontal Asymptote

$$y = \frac{1}{x - 2}$$

$$y = \frac{1}{x}$$

$$y = \frac{1}{x^2}$$

$$y = \frac{1}{x-2}$$
 $y = \frac{1}{x}$ $y = \frac{1}{x^2}$ $y = \frac{6x^2}{(2x^2+1)}$ $y = \frac{10x^2+4}{4x^2-3}$

$$y = \frac{10x^2 + 4}{4x^2 - 3}$$

$$y = \frac{1}{x-2} - 4$$
 $y = \frac{1}{x} + 1$ $y = \frac{1}{x^2} - 2$

$$y = \frac{1}{x} + 1$$

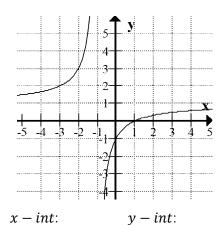
$$y=\frac{1}{x^2}-2$$

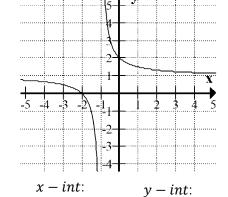
$$y = \frac{6x^2}{2x^2 + 1} + 1$$

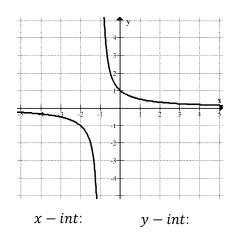
$$y = \frac{6x^2}{2x^2 + 1} + 1$$
 $y = \frac{10x^2 + 4}{4x^2 - 3} - 2$

C12 - 9.3 - x,y Intercepts HW

Find the x and y intercepts of the following.







Find the x and y intercepts of the following.

$$y=\frac{x-8}{x+4}$$

$$y=\frac{x}{x+4}$$

$$y = \frac{1}{x}$$

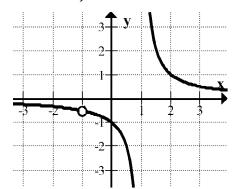
$$y = \frac{x^2 + 3x - 10}{x + 2}$$

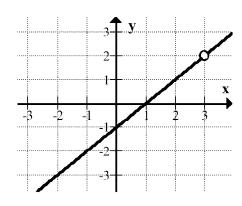
$$y=\frac{1}{x+1}+1$$

$$y=\frac{-2x}{x+1}+1$$

C12 - 9.4 - Holes HW

Find the location of the hole





Find the location of the hole

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

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

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

$$f(x) = \frac{x^2 - 5x + 4}{x - 1}$$

$$f(x) = \frac{x^2 + 7x + 10}{x - 2}$$

$$f(x) = \frac{x-4}{2x^2 - 7x - 4}$$