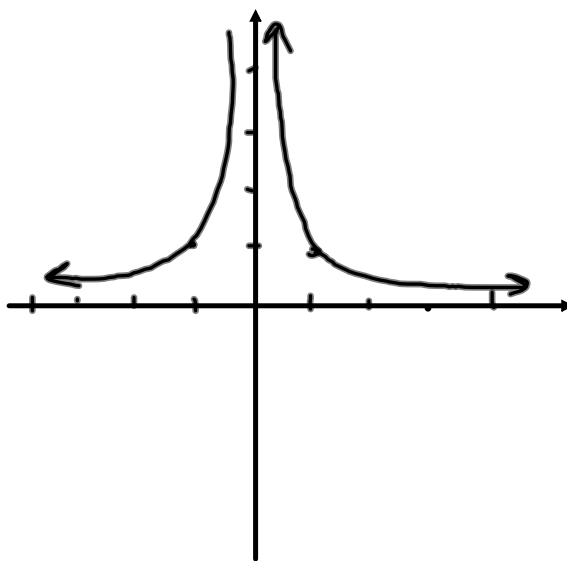


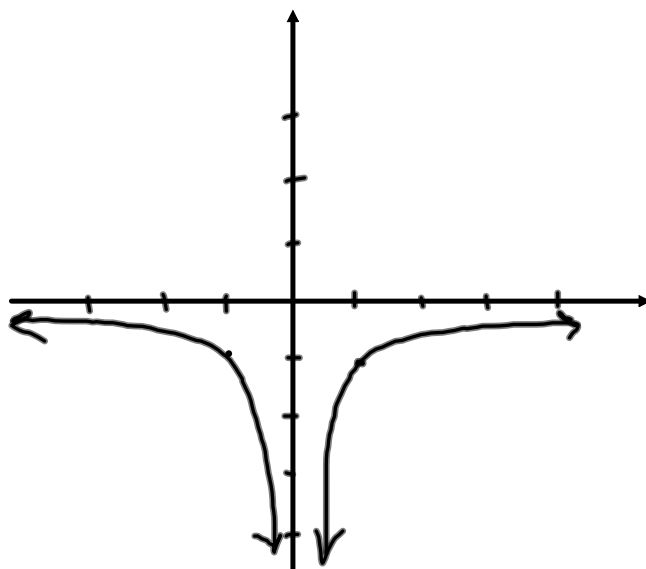
JAN 16/08

GRAPHING RATIONALS PART 3

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



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



GRAPH $f(x) = \frac{8}{x^2 + 4}$

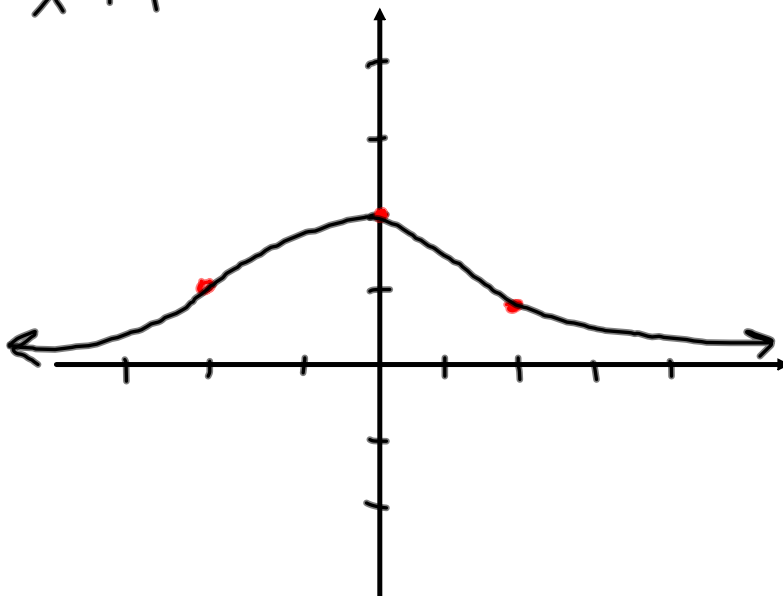
y-INT $f(0) = \frac{8}{0^2 + 4} = 2$

x-INT \rightarrow NO x-INT

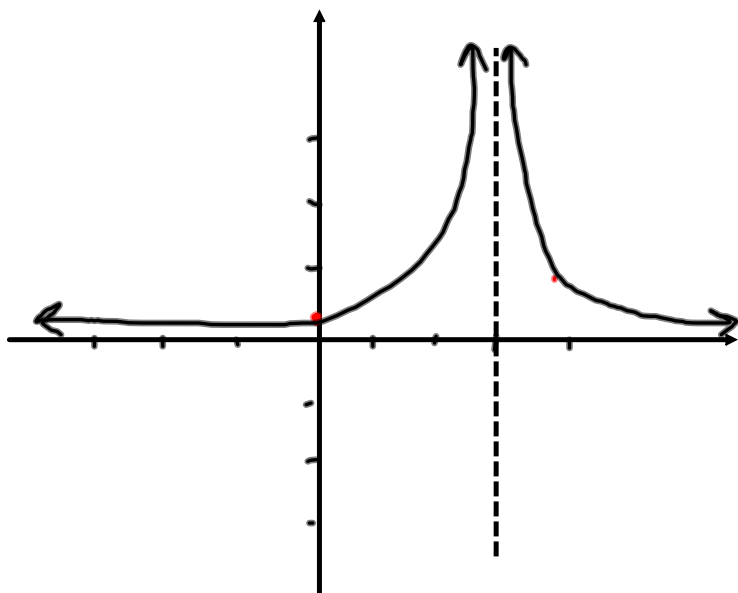
VERTICAL ASYMPTOTE - NO REAL ZEROS
 $x^2 + 4 = 0 \quad x^2 = -4$

HORIZONTAL ASYMPTOTE $y = 0$

$$f(x) = \frac{8}{x^2 + 4}$$



GRAPH $y = \left| \frac{1}{x-3} \right|$



y -INT
 $f'(0) = \left| \frac{1}{0-3} \right|$
 $f(0) = \frac{1}{3}$