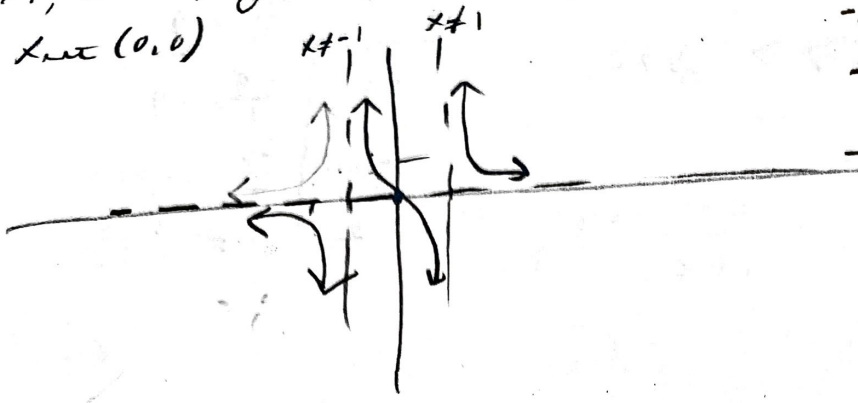
45. $y = \frac{x^3}{x^4-1} = \frac{x^3}{(x^2-1)(x^2+1)} = \frac{x^3}{(x-1)(x+1)(x^2+1)}$

$x \neq 1,\ x \neq -1,\ y \neq 0.$

Int $(0,0)$

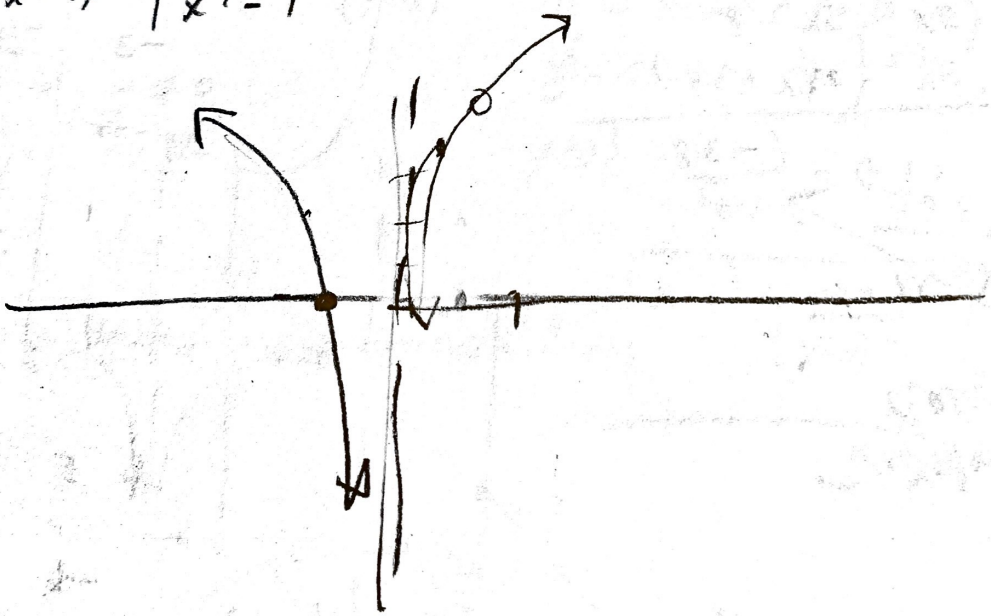


x	y
-2	$\frac{-8}{15} \approx -.53$
-3	$\frac{-27}{} \approx -.34$
-1.5	$\frac{-.125}{-.9375} = .133$
0	0
1.5	$\frac{.125}{-.9375} = -.133$
2	$\frac{8}{15} = .53$

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

$x \neq 0$ V.A $x \neq 1$ (hole)

$x^2 - x \overline{)\ x^4 - 1}$ $\quad x^2$ → NOT an oblique asymptote



x	y
.5	3.6
2	$\frac{15}{2} = 7.5$
-1	0
-2	$\frac{15}{6} = 2.5$