Graph the following rational function. Identifies also, holes, asymptotes, x-,y-intercepts as well as its domain.

C()	Τ ,	
f(x)	graph	requested info
$\frac{x^3}{x^2-1}$	A -2 2 4	domain: $x \in (-\infty, -1) \cup (-1, 1) \cup (1, \infty)$ holes: none VA: $x = \pm 1$ Slant A: $y = x$ x-int: $(0, 0)$ y-int: $(0, 0)$
$\frac{x^3}{x^2+4}$	A contract of the second of th	domain: $x \in (-\infty, \infty)$ holes: none VA: none Slant A: $y = x$ x-int: $(0,0)$ y-int: $(0,0)$
$\frac{1-x^2}{x}$	3 -2 -1 0 2 3 -1 -1 -1 -2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	domain: $x \in (-\infty,0) \cup (0,\infty)$ holes: none VA: $x=0$ Slant A: $y=-x$ x-int: $(\pm 1,0)$ y-int: does not exist



