

27. $f(x) = \frac{x^2 - 1}{x^2 - 4} = \frac{(x - 1)(x + 1)}{(x - 2)(x + 2)}$
 $f = 0$ at $x = \pm 1$.
 f is not defined at $x = \pm 2$.
 $f(x) > 0$ on $(-\infty, -2)$, $(-1, 1)$, and $(2, \infty)$.
 $f(x) < 0$ on $(-2, -1)$ and $(1, 2)$.