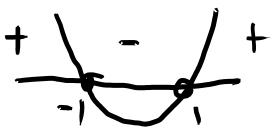


$$7. \quad f'(x) = x^2 - 1$$

Signe de  $f'$  : 

$x$	$-\infty$	$-1$	$1$	$+\infty$
$f'$		$+$	$-$	$+$
$f$	$-\infty$	$f(-1)$	$f(1)$	$+\infty$

$$\lim_{x \rightarrow -\infty} f(x) = -\infty$$

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

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

$$\lim_{x \rightarrow +\infty} f(x) = +\infty$$