

x	$-\infty$	-1	x_0	1	3	$+\infty$
$f_{7'}(x)$	—	—	⋮	—		+
$f_{7''}(x)$	—	+	0	—		—
$f_7(x)$	$y = -1$	$+\infty$	y_0	0	0	$y = 1$
concavité		A.V	P.I			

The figure shows a graph of a function $f_7(x)$. The horizontal axis represents x and the vertical axis represents y . A local maximum is marked at $y = -1$ with a dashed line. A point of inflection is marked at y_0 with a solid line. A local minimum is marked at $y = 1$ with a dashed line. The graph is concave up (A.V.) on the interval $(-\infty, y_0)$ and concave down (P.I.) on the interval $(y_0, +\infty)$.

x	$-\infty$	$-\frac{\sqrt{2}}{2}$	$\frac{3-\sqrt{5}}{4}$	$\frac{\sqrt{2}}{2}$	1	$\frac{3+\sqrt{5}}{4}$	$+\infty$
$f'(x)$		-			-	0	+
$f''(x)$		-			+	0	-
$f(x)$	$-2\sqrt{2}$	$-\infty$			$+ \infty$	$\frac{2\sqrt{1+\sqrt{5}}}{\sqrt{3}}$	$2\sqrt{2}$
concavité		A.V		A.V		P.I	