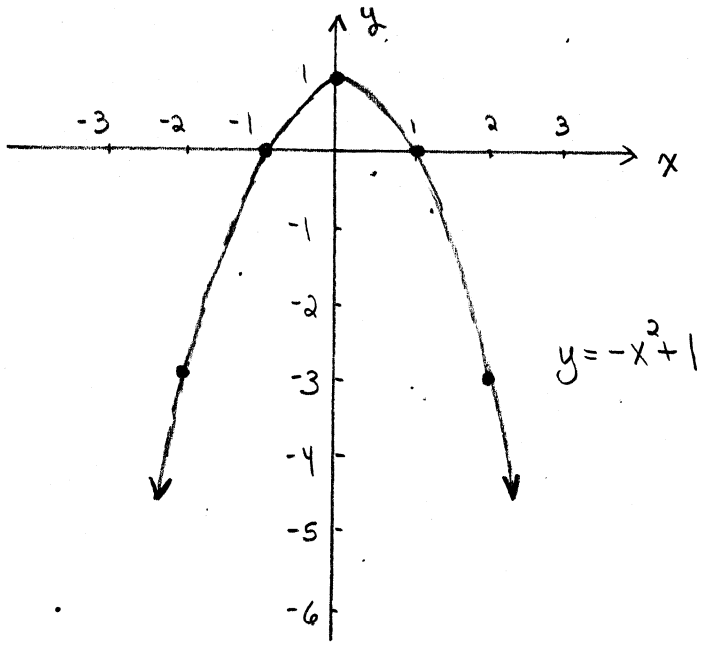
- Sketch the graph of $g(x) = -x^2 + 1$. Determine open intervals on which g is increasing/decreasing. Determine any local minima or maxima.



x	y = g(x)
0	1
1	0
-1	0
2	-3
-2	-3

INCREASING ON $(-\infty, 0)$

DECREASING ON $(0, \infty)$

$y = 1$ IS A LOCAL MAX. AT $x = 0$