11. $f(x) = \begin{cases} 3x-1, & x \le -1 \\ x^2-2x, & x > -1 \end{cases}$

① $f'(x) = \begin{cases} 3, & x \le -1 \\ 2x-2, & x > -1 \end{cases}$

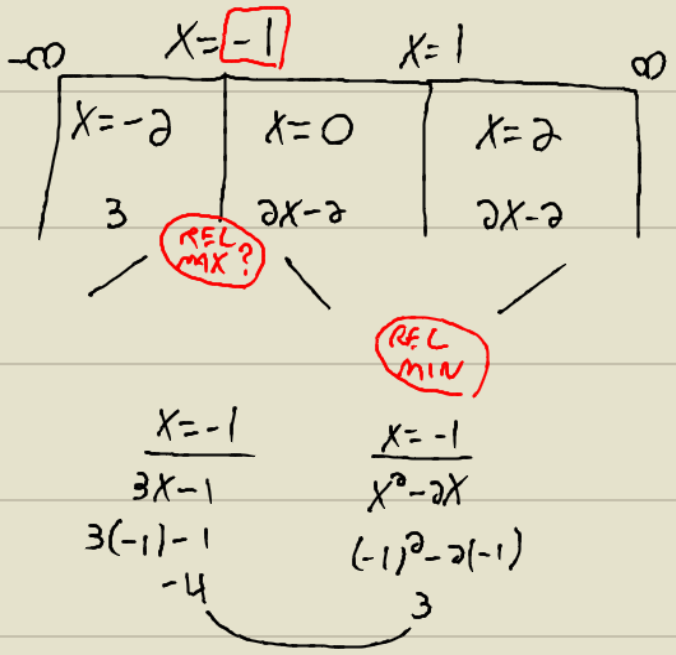
② $3 = 0 \quad 2x-2 = 0 \quad x = -1$

$2x = 2$

$x = 1$

INC	$(-\infty, -1)$
DEC	$(-1, 1)$
INC	$(1, \infty)$

③



$x=-1$	$x=-1$
$3x-1$	x^2-2x
$3(-1)-1$	$(-1)^2-2(-1)$
-4	3

④ REL MIN : $x = 1$

$y = x^2-2x$

$y = 1^2-2(1)$

$y = -1$

REL MIN : $(1, -1)$