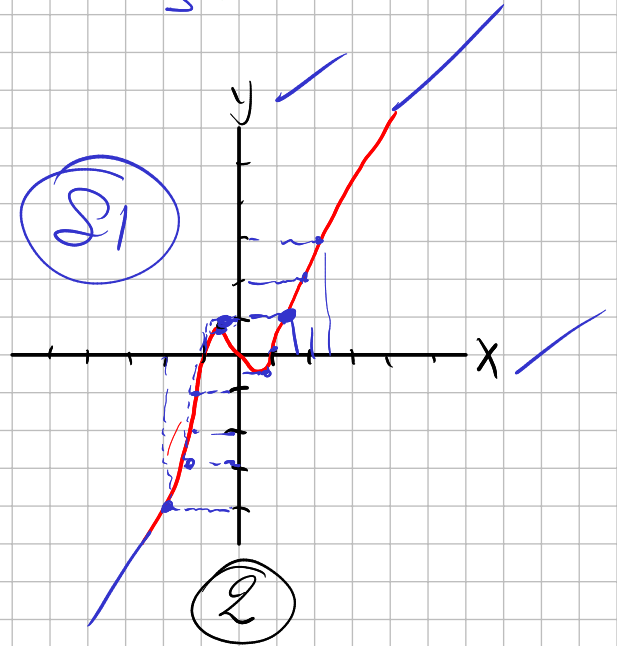
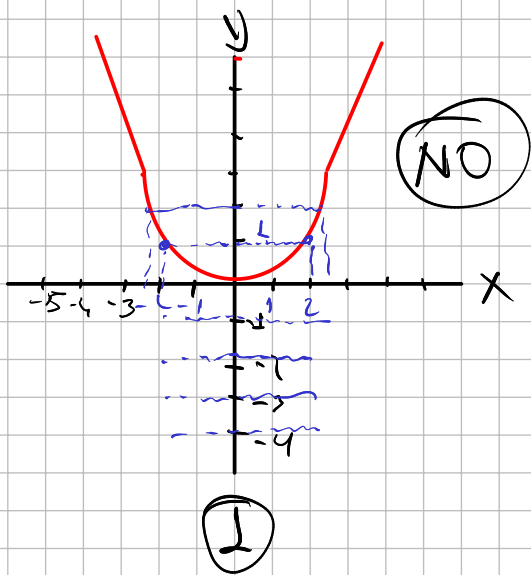
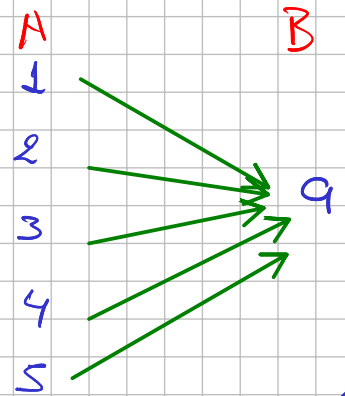
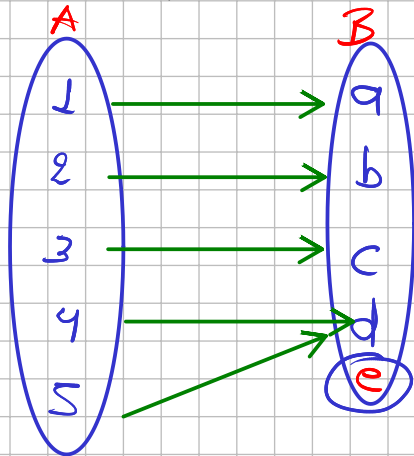
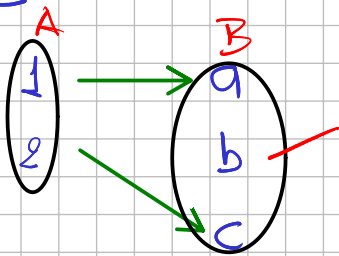


SOBREYECTIVA

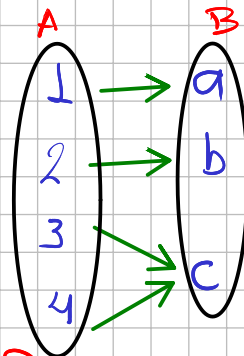
CADA ELEMENTO DEL CONJUNTO B LE CORRESPONDE POR LO MENOS UN ELEMENTO DEL CONJUNTO A



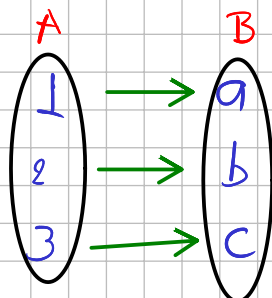
BIYECTIVA $\Rightarrow$ INYECTIVA Y SOBREYECTIVA



INYECTIVA

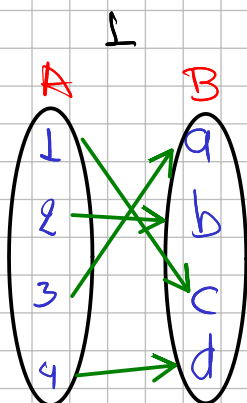
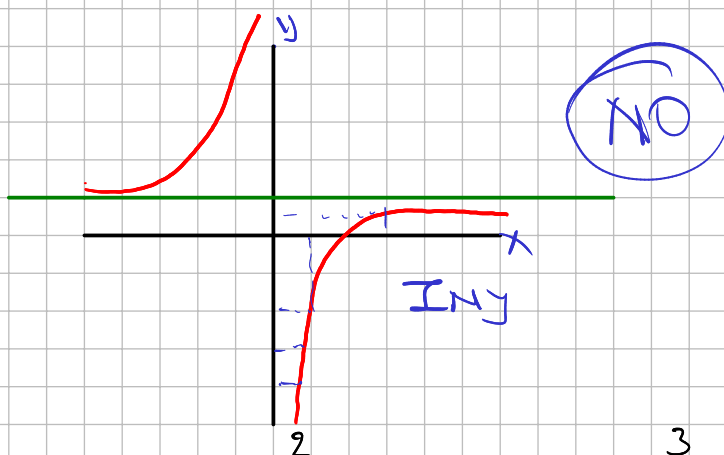
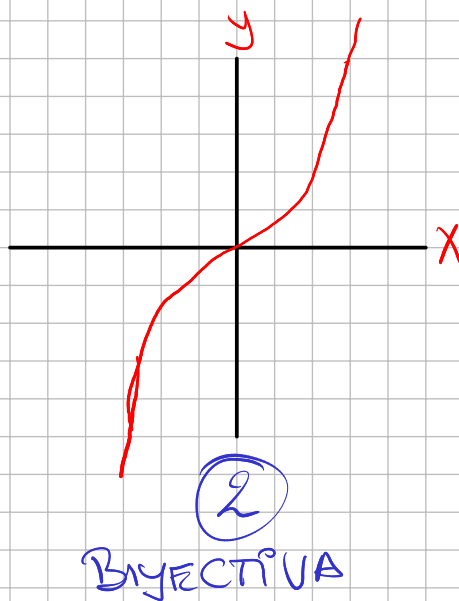
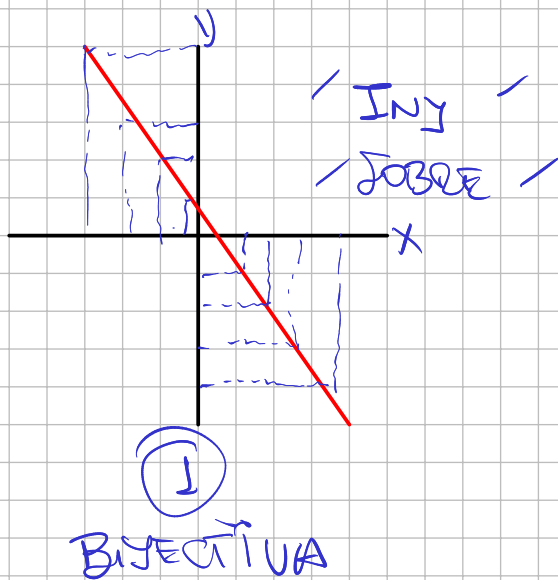


SOBREYECTIVA

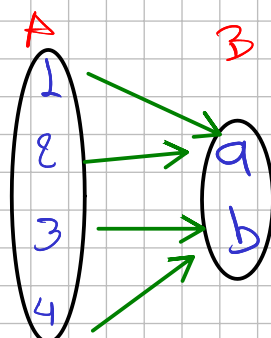


INY
SOBRY

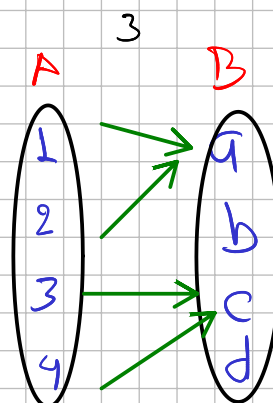
BIYECTIVA



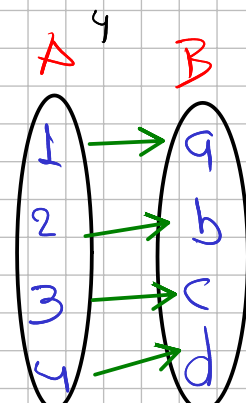
BIY



SURRE



INY



BIY

EVALUACIÓN DE FUNCIONES

$$f(x) = 3x - 2 \rightarrow \underline{f(2)} \text{ y } \underline{f(-3)}$$

$$\begin{aligned} f(x) &= 3x - 2 \\ f(x) &= 3(2) - 2 \\ f(x) &= 4 \end{aligned}$$

$$f(2) = (2, 4)$$

$$\begin{aligned} f(x) &= 3x - 2 \\ f(x) &= 3(-3) - 2 \\ f(x) &= -11 \end{aligned}$$

$$f(-3) = (-3, -11)$$

$$f(x) = 1 - 2x \rightarrow \underline{f(3)} \quad \underline{f(1)}$$

$$f(x) = 1 - 2(3)$$

$$f(x) = 1 - 6$$

$$f(x) = -5$$

$$f(3) = (3, -5)$$

$$f(x) = 1 - 2(1)$$

$$f(x) = 1 - 2$$

$$f(x) = -1$$

$$f(1) = (1, -1)$$

DADA $g(x) = 5x^2 - 2x + 1 \rightarrow g(3) \text{ y } g(-2)$

$$g(3) = 5(3)^2 - 2(3) + 1$$

$$g(3) = 5(9) - 6 + 1$$

$$g(3) = 40$$

$$g(-2) = 25$$

DADA $f(x) = 2x - 5$

$$g(x) = x^2 - 3x + 1$$

$\rightarrow$

$$f(0) \text{ y } f(4)$$

$$g(5) \text{ y } g(-2)$$

$$f(0) = 2x - 5$$

$$f(0) = 2(0) - 5$$

$$f(0) = -5$$

$$f(4) = 2x - 5$$

$$f(4) = 2(4) - 5$$

$$f(4) = 3$$

$$g(5) = x^2 - 3x + 1$$

$$g(5) = (5)^2 - 3(5) + 1$$

$$g(5) = 11$$

$$g(-2) = x^2 - 3x + 1$$

$$g(-2) = 11$$

DADA $f(x) = 3x - 5 \rightarrow f(x+1)$

$$f(x+1) = 3x - 2$$

DADA $f(x) = 2x + 4 \rightarrow f(2b)$

$$f(2b) = 4b + 4$$

DADA $f(x) = 5x - 3$
 $g(x) = x$

$g(m+2)$
 $f(2ab)$

$f(2ab) = 10ab - 3$ $g(m+2) = m+2$

DADA $f(x) = x^2 - 3x - 2 \rightarrow f(2x+1)$
 $f(2x+1) = (2x+1)^2 - 3(2x+1) - 2$
 $= 4x^2 + 4x + 1 - 6x - 3 - 2$
 $= 4x^2 - 2x - 4$

REPRESENTACIÓN DE FUNCIONES

EL CUADRADO DE X

* EXPRESIÓN ANALÍTICA = $f(x) = x^2$

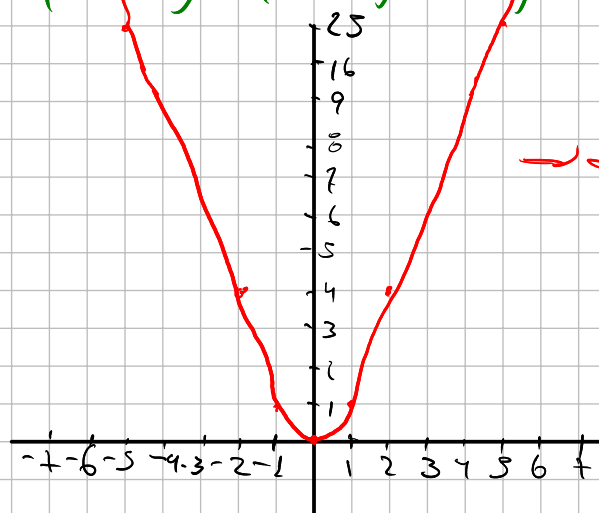
* TABLA DE VALORES

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x)	25	16	9	4	1	0	1	4	9	16	25

* PAREJAS ORDENADAS

$f(x) = \{(-5, 25), (-4, 16), (-3, 9), (-2, 4), (-1, 1), (0, 0), (1, 1), \dots\}$

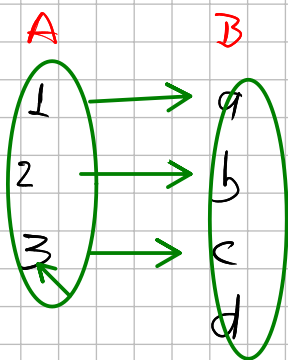
* GRÁFICA



→ INYECTIVA

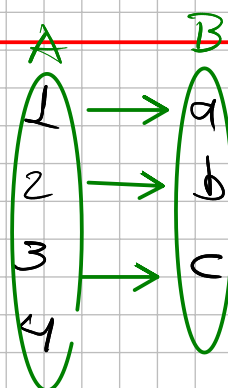
INYECTIVA

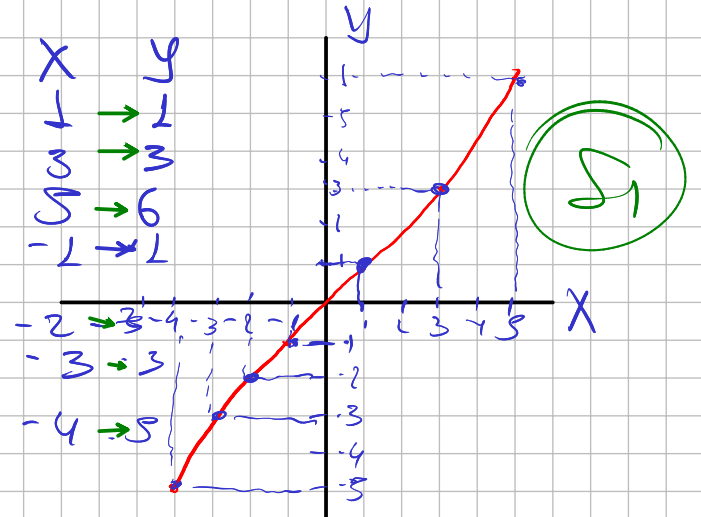
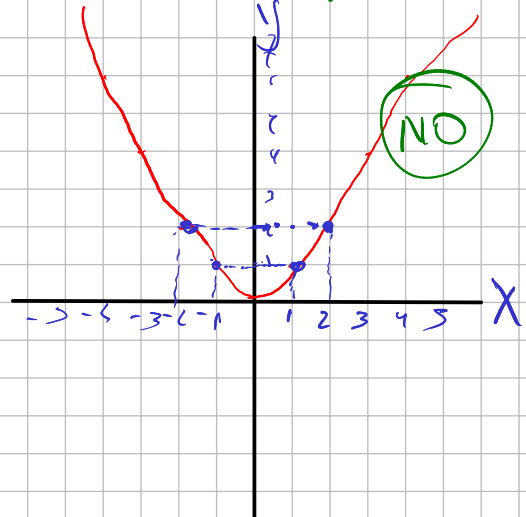
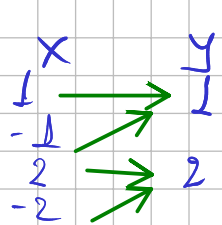
$B \rightarrow A$



SOBREECTIVA

$B \rightarrow A$





INYECCION Y SOBREYECCION / PROYECCION

TAREA

DADA $h(x) = 2x^2 - x + 1 \rightarrow f(x), h(2a+b)$

DADA $f(x) = x^3 - x^2 + x + 1 \rightarrow f(2), f(x^2)$

DADA $f(x) = 5 - 3x^2 \rightarrow f(x+1)$

REPRESENTACION DOS X

EXPRESION ANALITICA $f(x) = 2x \rightarrow \begin{matrix} 1 \\ 2 \\ 3 \end{matrix}$

VIERNES 19/01/24
23:59 PM