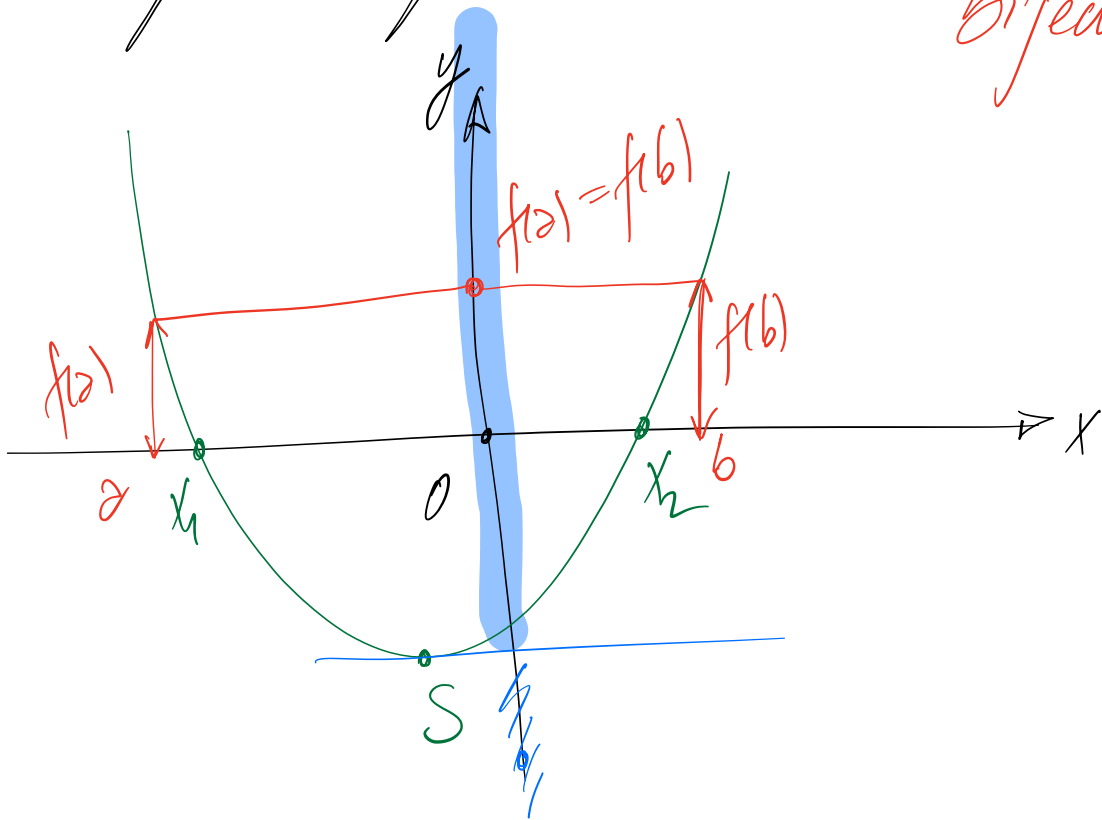
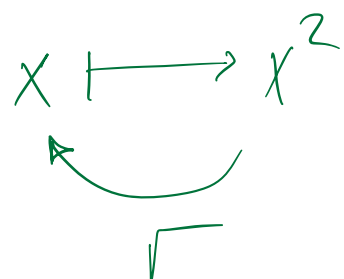
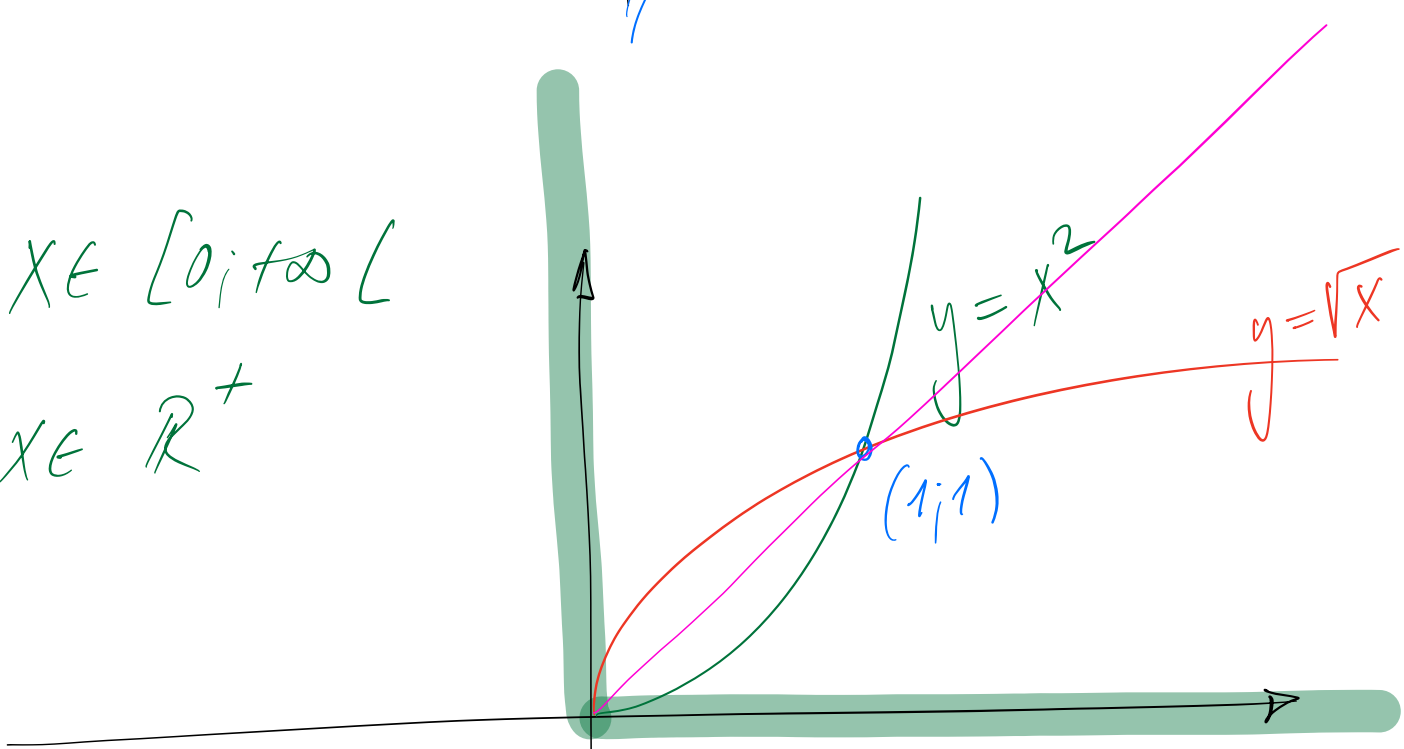


Fonction quadratique

bijection?



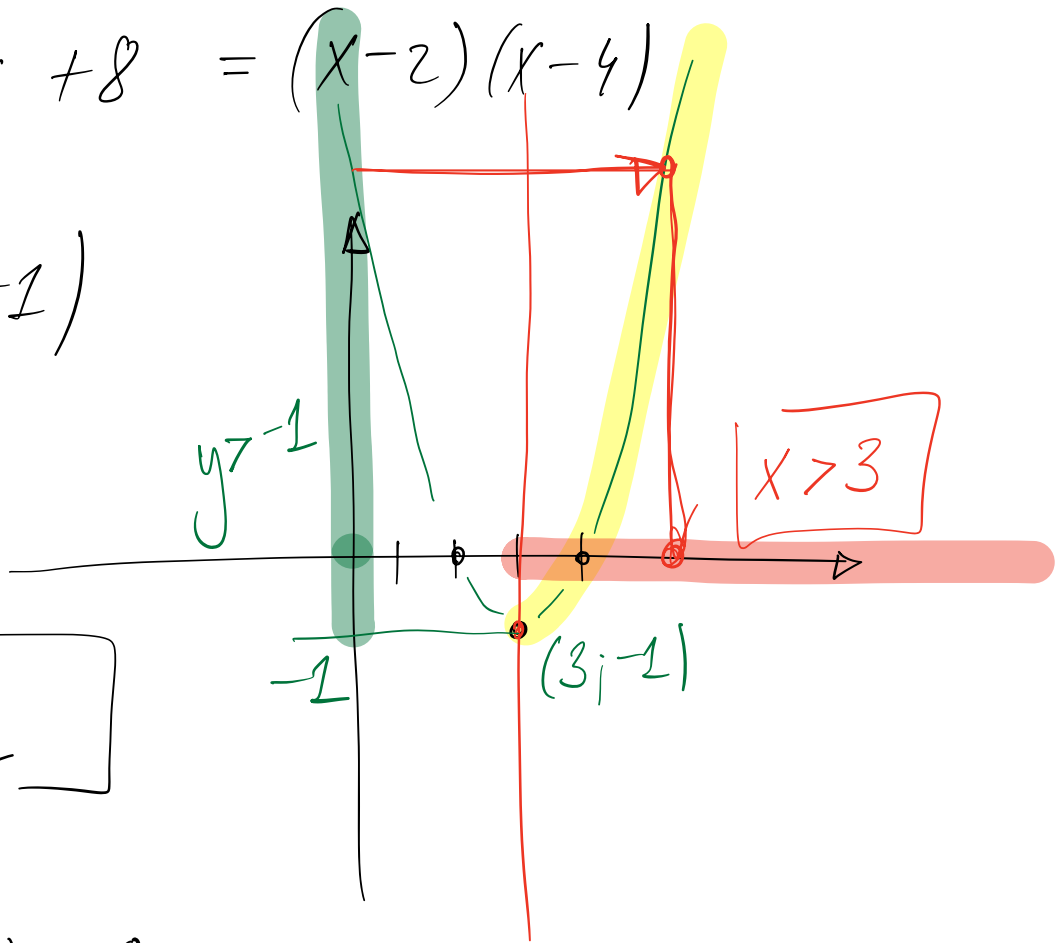
$x \in [0; +\infty[$   
 $x \in \mathbb{R}^+$



$x \geq 0$   
 $y \geq 0$

$$1. X^2 - 6X + 8 = (X-2)(X-4)$$

$$S(3; +\infty[)$$



$$x^2 - 6x + 8 = y$$

$$x^2 - 6x + (8 - y) = 0$$

$$a=1 \quad b=-6 \quad c=8-y$$

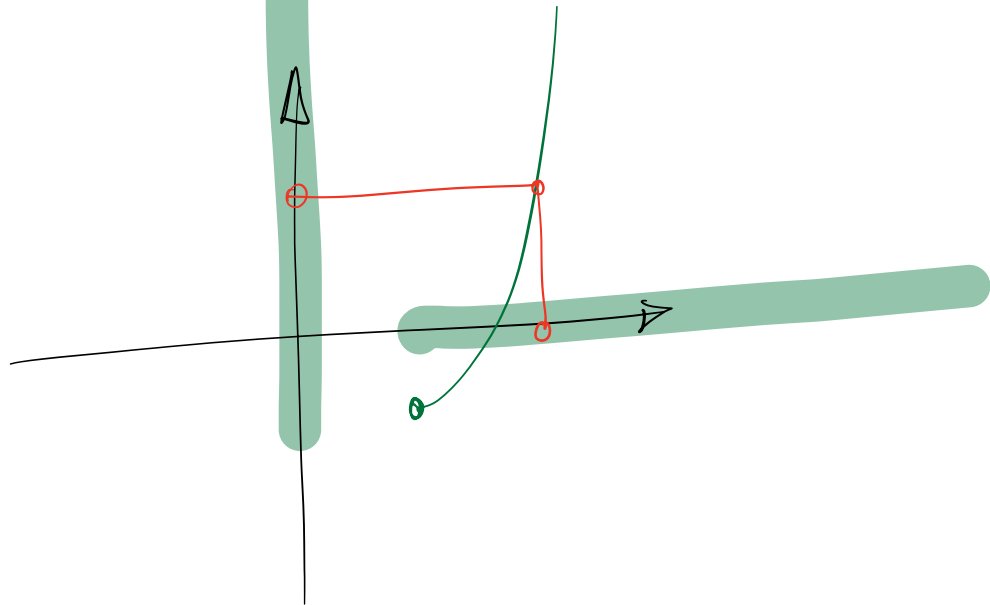
$$X = \frac{6 \pm \sqrt{36 - 4(8-y)}}{2} = \frac{6 \pm \sqrt{4y+4}}{2}$$

$\Rightarrow$  Le réciproque <sup>que</sup> de  $y = x^2 - 6x + 8$

$$[3; +\infty[ \xrightarrow{x \geq 3} [-1; +\infty[ \quad y \geq -1 \quad X = \frac{6 + \sqrt{4y+4}}{2}$$

$$3^2 - 6 \cdot 3 + 8 = 9 - 18 + 8 = \textcircled{-1}$$

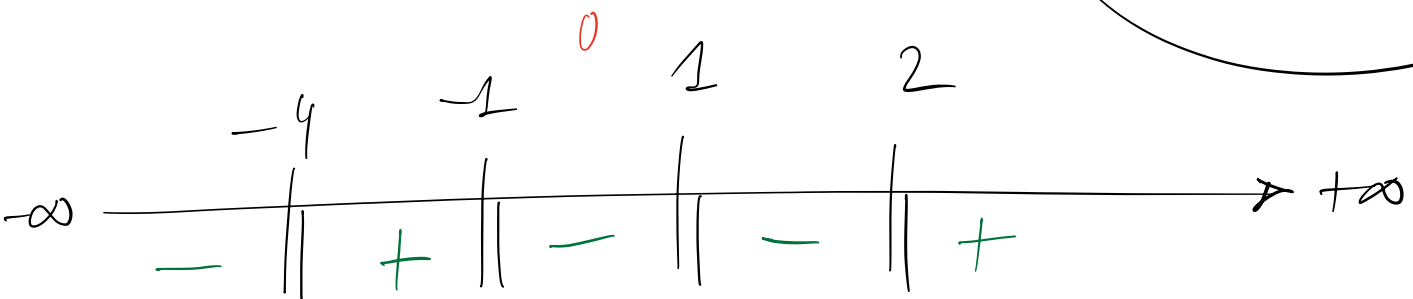
$$\frac{6 + \sqrt{4 \cdot (-1) + 4}}{2} = \frac{6 + \sqrt{0}}{2} = \textcircled{3}$$



$$\frac{x-1}{(x^2-1)(x^2+2x-8)} = \frac{\textcircled{x-1}}{(x+1)\textcircled{x-2}(x+4)(x-2)}$$

$$D_f = \mathbb{R} \setminus \{ \pm 1, 2, -4 \}$$

Zéros:  $x=1$  mais il est exclu. Bs de zéro.



$$y = 2x - 3$$

↓ +3

$$3 + y = 2x$$

$$2x = y + 3$$

↓ ÷ 2

$$x = \frac{y + 3}{2}$$