

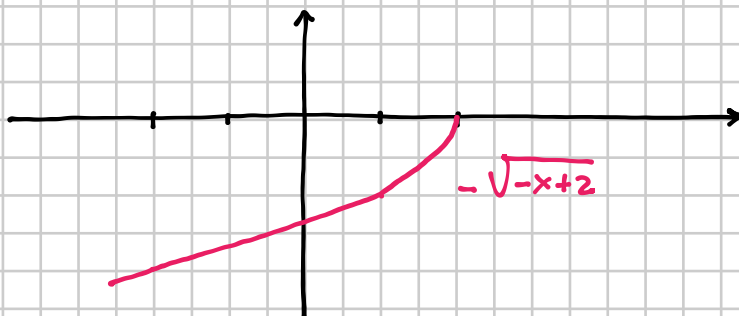
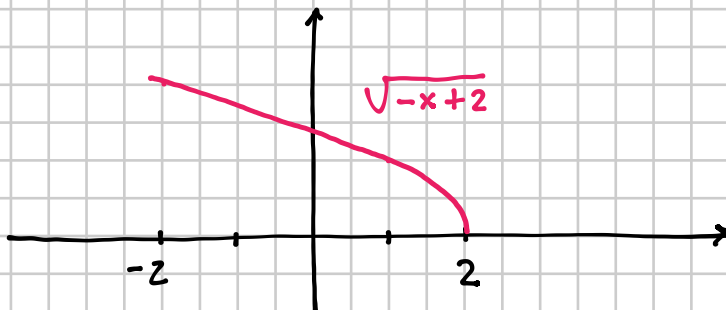
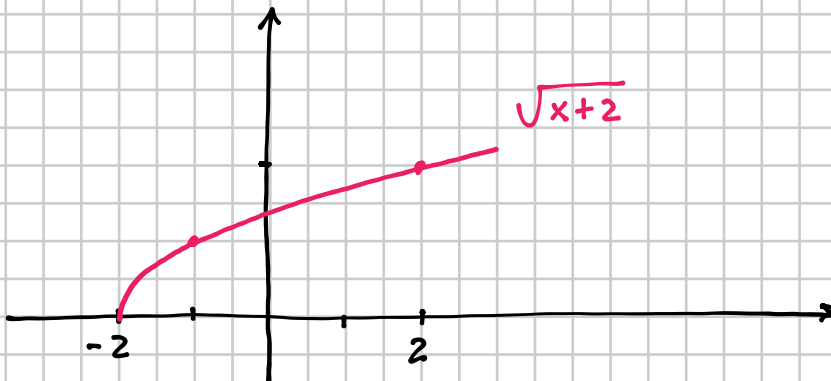
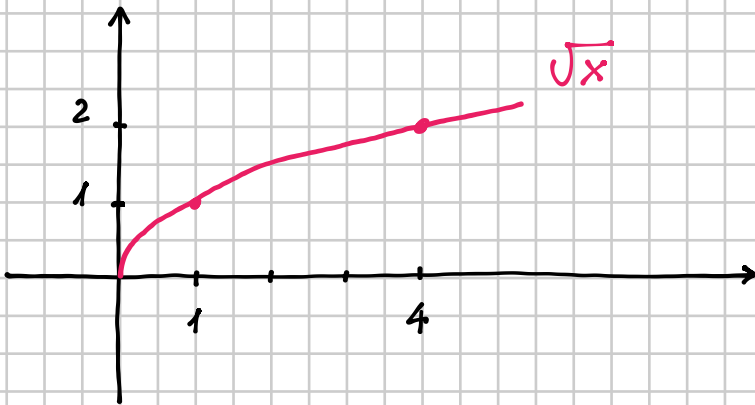
ESERCIZI SULLE FUNZIONI

DISEGNARE IL GRAFICO DELLA FUNZIONE $f(x) = -\sqrt{2-x}$

Per fare successivamente:

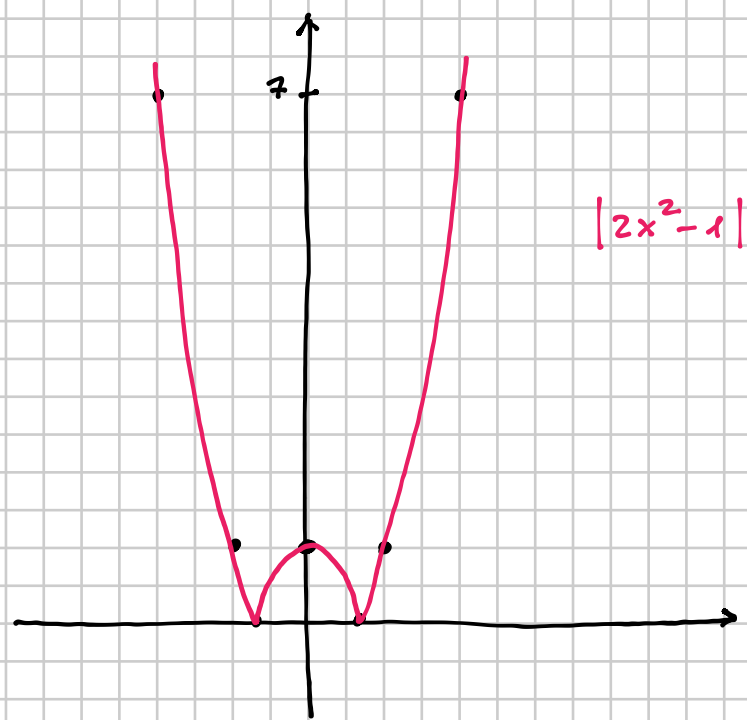
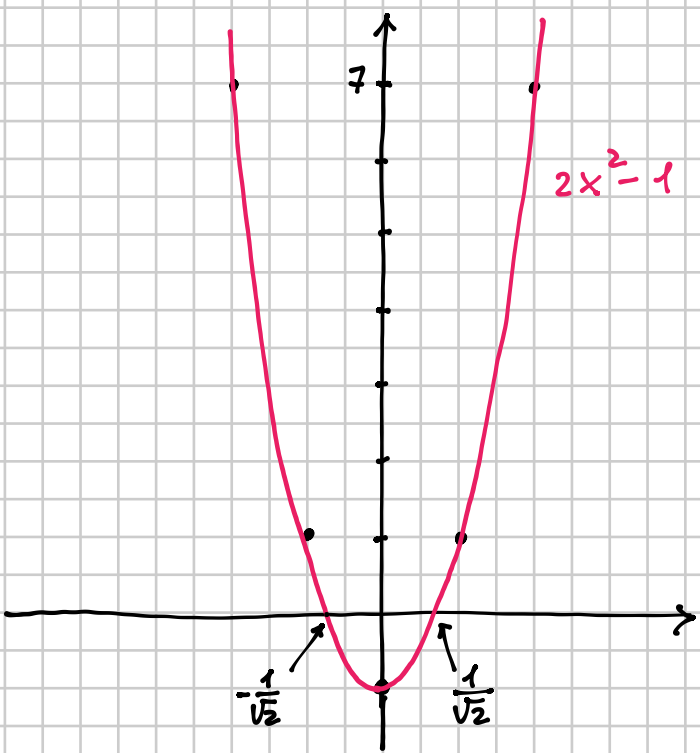
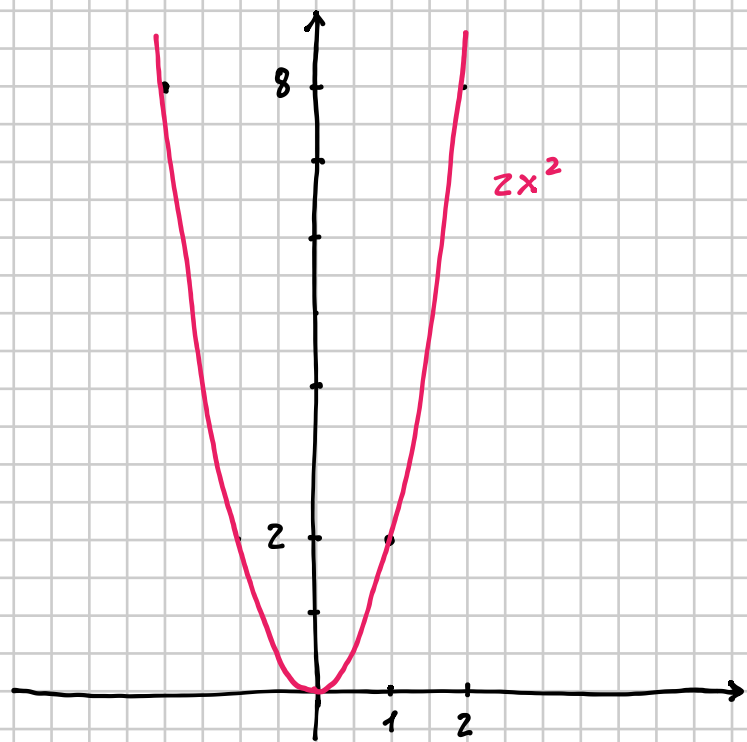
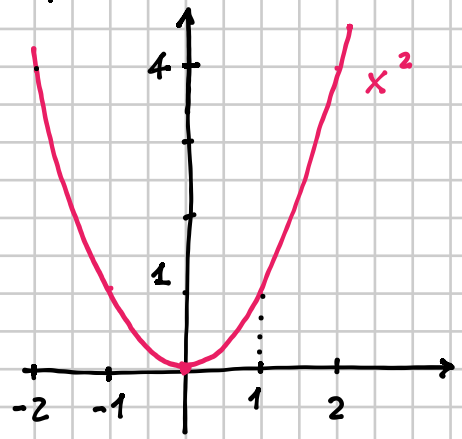
$$\sqrt{x} \rightarrow \sqrt{x+2} \rightarrow \sqrt{-x+2} \rightarrow -\sqrt{-x+2}$$

$h(x) \rightarrow h(x+2)$	$g(x) \rightarrow g(-x)$	$r(x) \rightarrow -r(x)$
trasl. a sinistra	simmetria risp. all'asse y	simmetria risp. all'asse x



DISEGNARE IL GRAFICO DI $f(x) = |2x^2 - 1|$

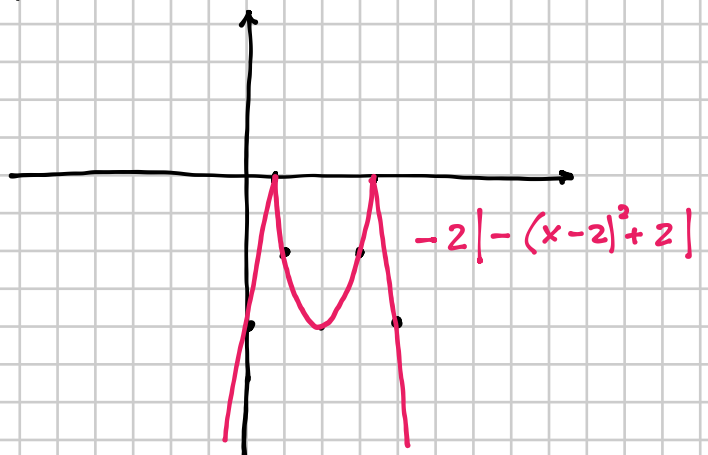
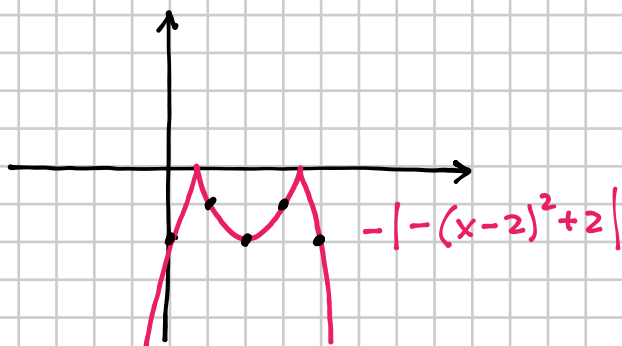
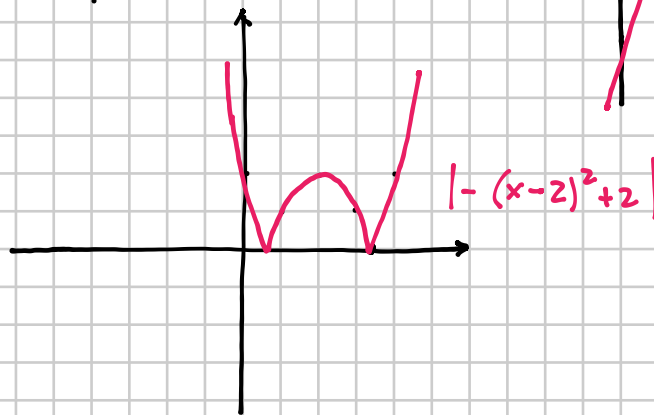
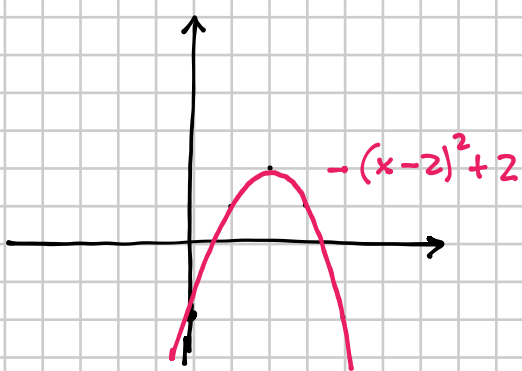
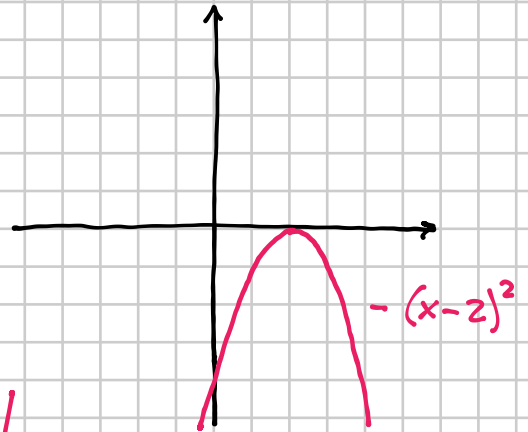
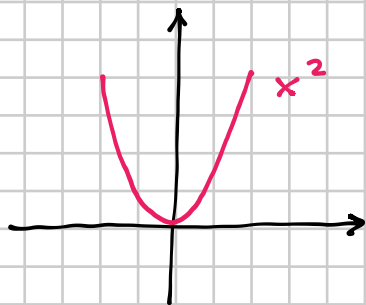
passi: $x^2 \rightarrow 2x^2 \rightarrow 2x^2 - 1 \rightarrow |2x^2 - 1|$



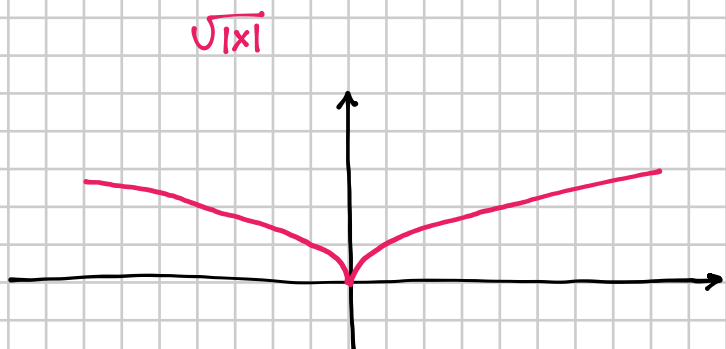
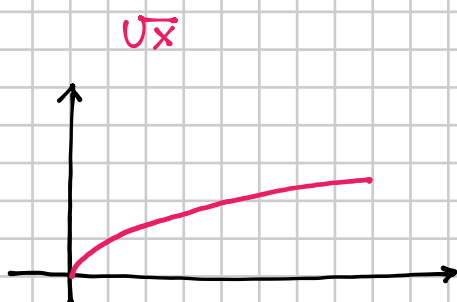
DISEGNARE $f(x) = -2|-(x-2)^2 + 2|$

$$x^2 \rightarrow (x-2)^2 \rightarrow -(x-2)^2 \rightarrow -(x-2)^2 + 2$$

$$\rightarrow |-(x-2)^2 + 2| \rightarrow -|-(x-2)^2 + 2| \rightarrow -2|-(x-2)^2 + 2|$$

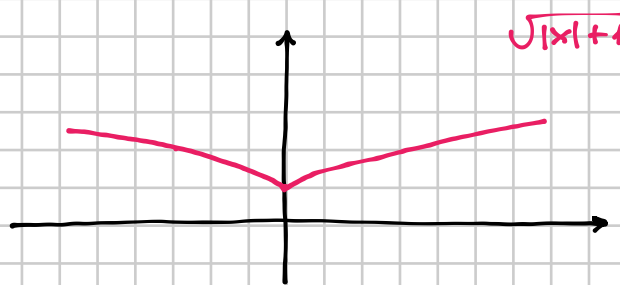
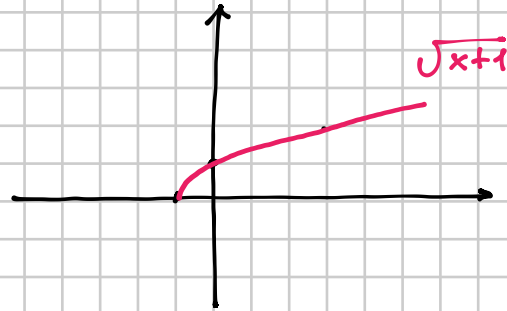
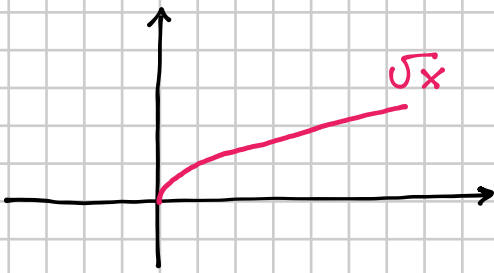


DISEGNARE $y = \sqrt{|x|}$



$$\sqrt{|x|+1}$$

$$\sqrt{x} \rightarrow \sqrt{x+1} \rightarrow \sqrt{|x|+1}$$



$f(x)$
↓
 $f(|x|)$

Qual é a diferença entre $y = |x|+1$ e $y = |x+1|$

