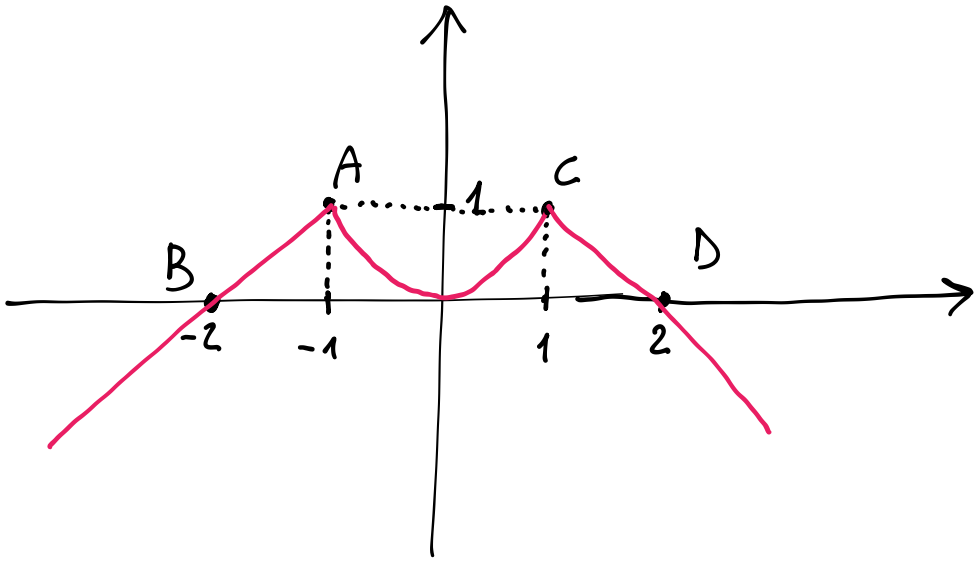
50 $y = \begin{cases} x+2 & \text{se } x < -1 \\ x^2 & \text{se } -1 \le x \le 1 \\ -x+2 & \text{se } x > 1 \end{cases}$

pg. 378 DISEGNARE



$x < -1 \quad y = x + 2$ $\quad x = -1 \quad y = -1+2 = 1 \quad A(-1,1)$

$x = -2 \quad y = -2+2 = 0 \quad B(-2,0)$

$-1 \le x \le 1 \quad y = x^2$  $V(0,0)$ $\quad x = -1 \quad y = 1$

$x = 1 \quad y = 1$

$x > 1$

$y = -x + 2 \quad x = 1 \quad y = -1+2 = 1 \quad C(1,1)$

$x = 2 \quad y = -2+2 = 0 \quad D(2,0)$

$$f(x)=\begin{cases} 2x+1 & x\le 0 \\ (x-2)^2+1 & 0<x\le 4 \\ 2 & x>4 \end{cases}$$

$x=0 \quad y=1 \quad A(0,1)$

$y=2x+1 \quad x=-1 \quad y=-1 \quad B(-1,-1)$

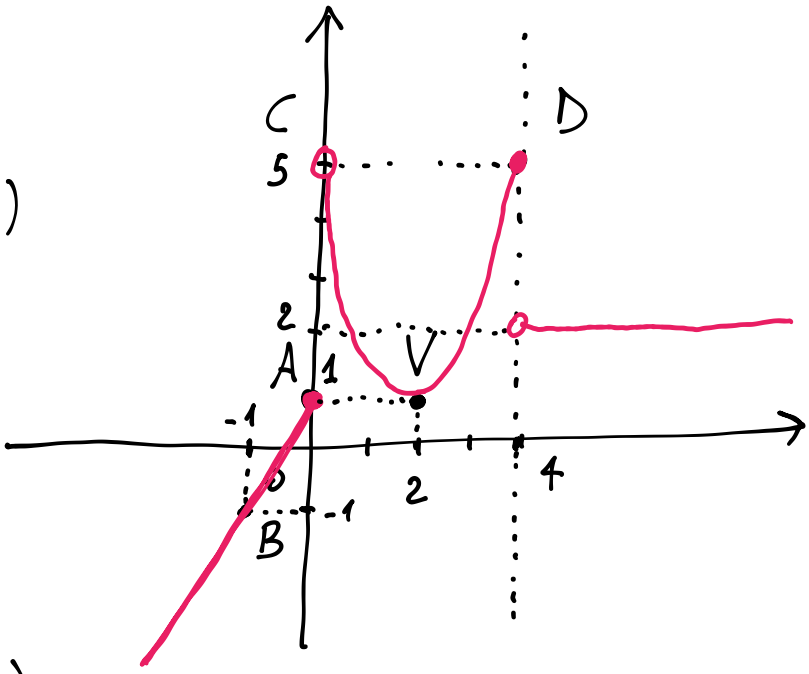
$y=(x-2)^2+1$

$y=x^2-4x+4+1$

$y=x^2-4x+5 \qquad -\frac{b}{2a}=-\frac{-4}{2}=2$

$V(2,1) \quad x=0 \quad y=5 \quad C(0,5)$

$x=4 \quad y=5 \quad D(4,5)$



$f(7)=2 \qquad f(3)=2$

$f(-2)=-3$