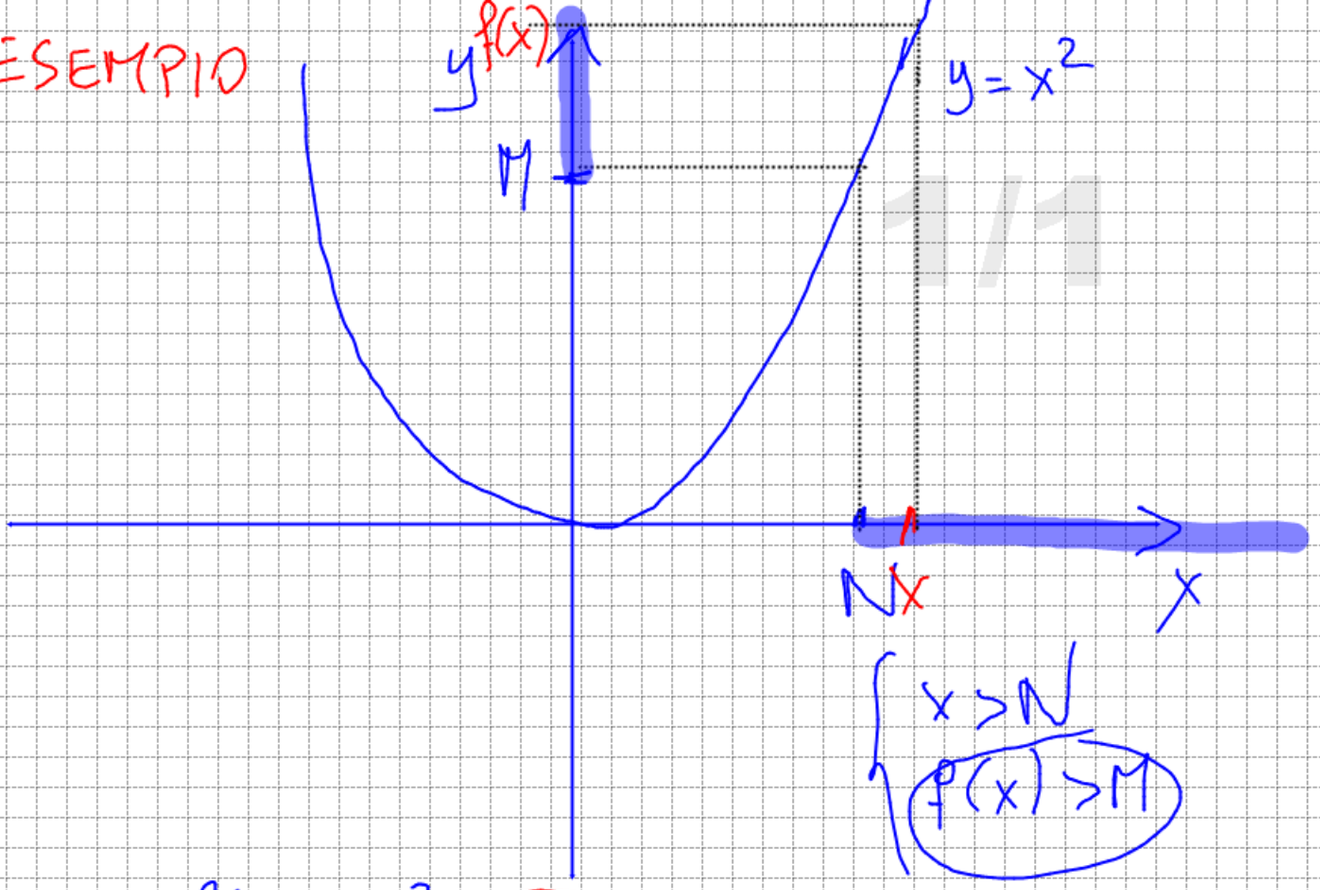
ESEMPIO



$$\begin{cases} x > N \\ f(x) > M \end{cases}$$

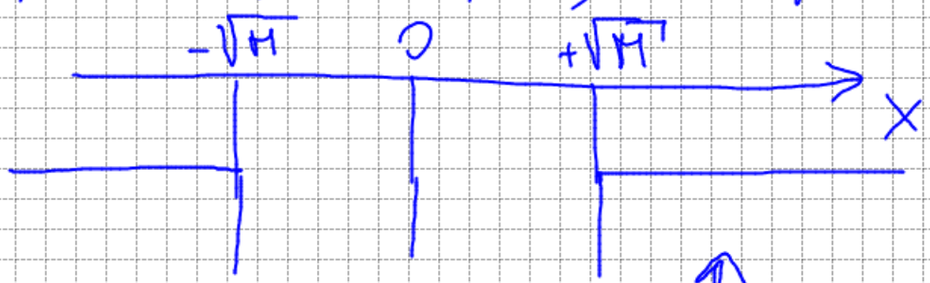
$$\lim_{x \to +\infty} x^2 = +\infty$$

$\forall M > 0 \; \exists I_M(+\infty)$ e corrispondentemente

$\exists N > 0$ e $I_N(+\infty) \mid \forall x \in I_N(+\infty)$

si ha che $f(x) > M$

$$f(x) > M \Rightarrow x^2 > M \Rightarrow x < -\sqrt{M} \cup x > \sqrt{M}$$



$x > \sqrt{M}$ → N

intorno di $+\infty$