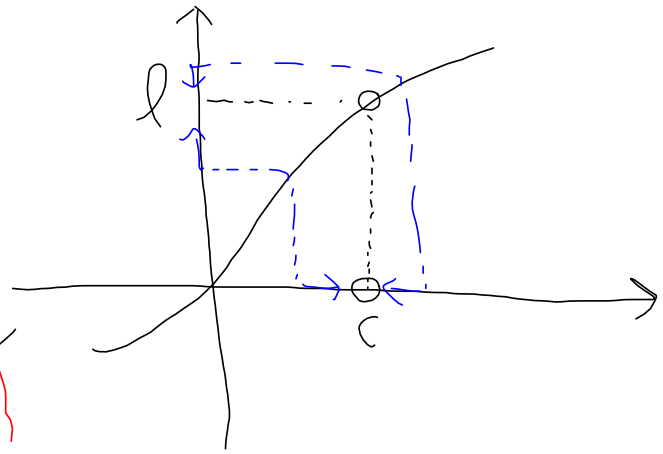
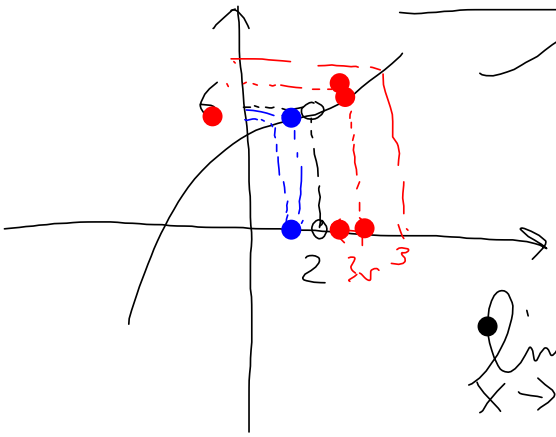
LIMITE l di UNA FUNZIONE $f(x)$ PER x CHE TENDE A (UN VALORE FINITO) c.

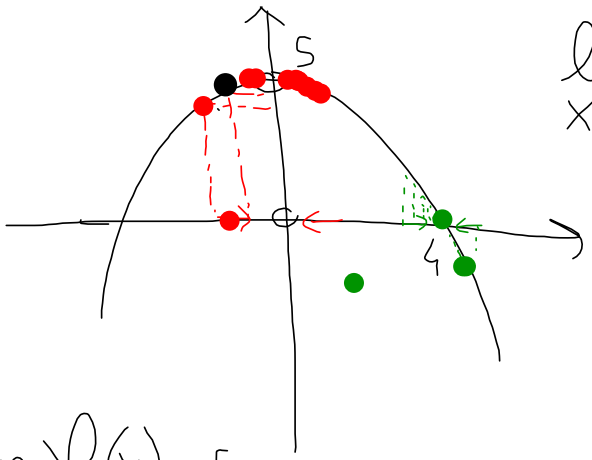
$$\lim_{x \to c} f(x) = l$$





$$\lim_{x \to 2} f(x) = 6$$

$f(2)$ NON ESISTE

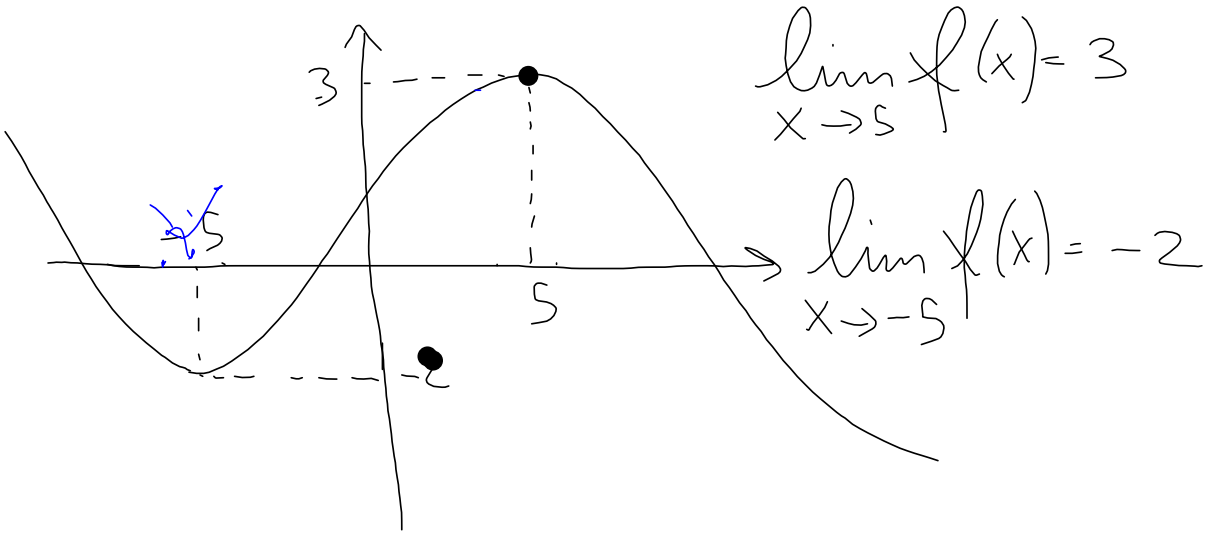


$\lim_{x \to 0} f(x) = 5$

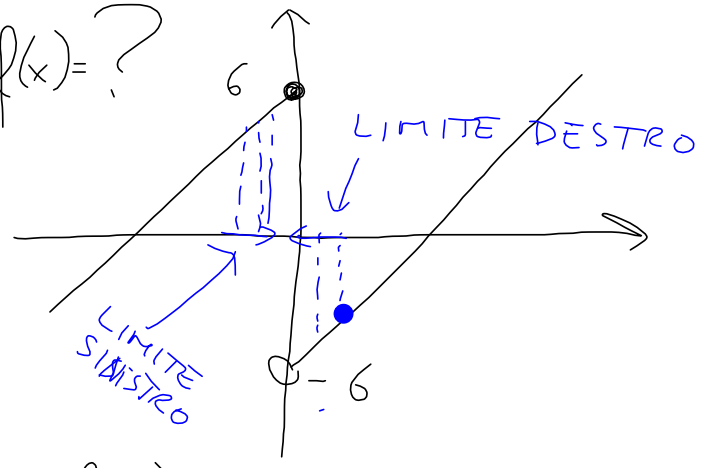
$\lim_{x \to 4} f(x) = 0$

$\lim_{x \to 0^+} f(x) = 5$

$\lim_{x \to 0^-} f(x) = 5$


3
-5
5
-2
lim x→5 f(x) = 3
lim x→-5 f(x) = -2

$\lim_{x\to 0} f(x) = ?$



$\lim_{x\to 0^+} f(x)$ → LIMITE DESTRO $\lim_{x\to 0^+} f(x) = -6$

$\lim_{x\to 0^-} f(x)$ → LIMITE SINISTRO $\lim_{x\to 0^-} f(x) = 6$

SE $\lim_{x\to c^+} f(x) = l$ e $\lim_{x\to c^-} f(x) = l$ $\Rightarrow \lim_{x\to c} f(x) = l$