

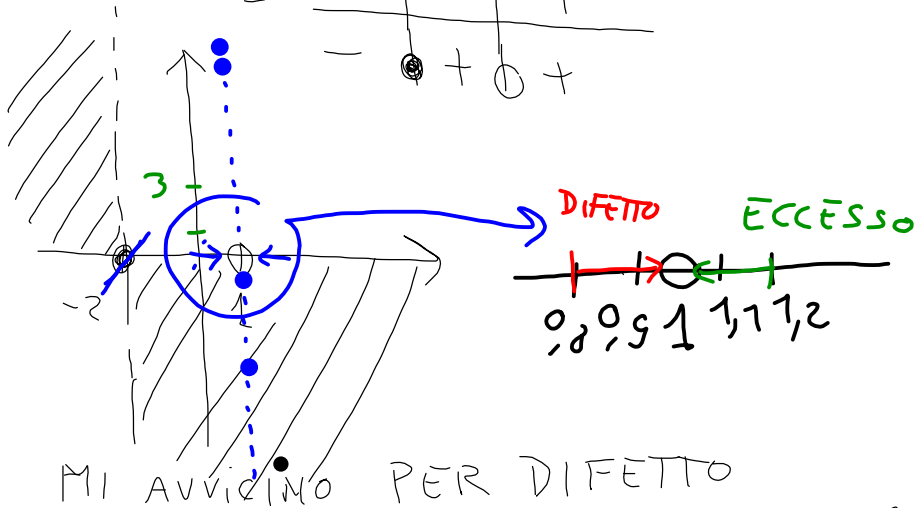
LIMITE DI UNA FUNZIONE

$$y = \frac{x^2 + x - 2}{x - 1} \quad D: \mathbb{R} - \{1\}$$

$$N: \Delta = 1 + 8 = 9 \quad x_{1,2} = \frac{-1 \pm 3}{2} = \begin{cases} -2 \\ +1 \end{cases}$$

D: $x > 1$

	-2	1	
N	+	-	+
D	-	-	+
	-	+	+

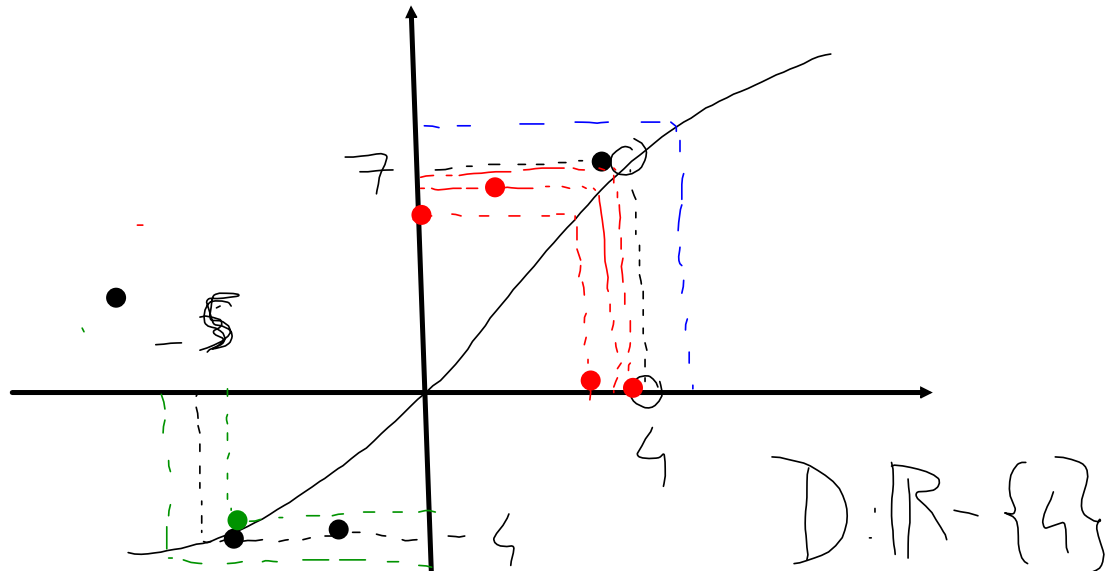


x	0,85	0,9	-----	0,99999
f(x)	2,85	2,9	-----	2,99999

MI AVVICINO PER ECESSO

x	1,15	1,05	-----	1,00009
f(x)	3,15	3,05	-----	3,00009

$$\lim_{x \rightarrow 1} f(x) = \lim_{x \rightarrow 1} \frac{x^2 + x - 2}{x - 1} = 3$$

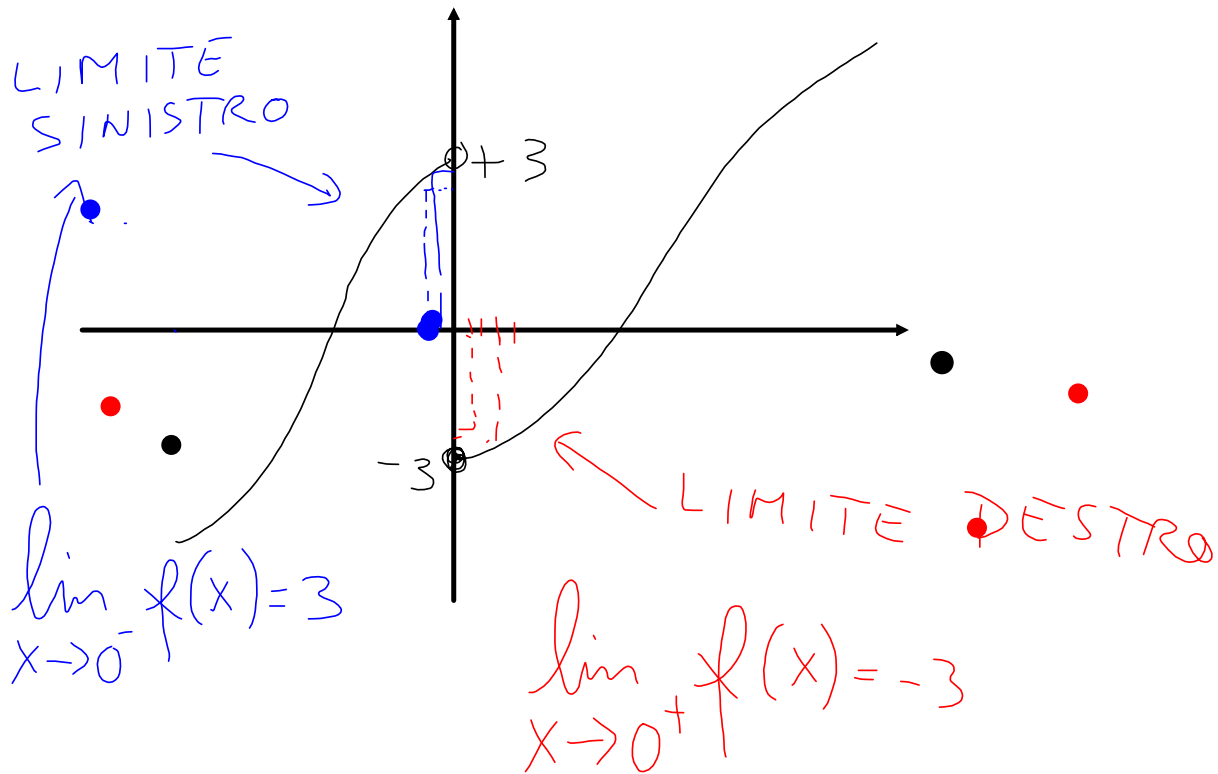


$$\lim_{x \rightarrow 4} f(x) = 7$$

$f(4)$ NON
ESISTE

$$\lim_{x \rightarrow -5} f(x) = -4$$

$$f(-5) = -4$$



S.E.

$$\lim_{x \rightarrow c^+} f(x) = \lim_{x \rightarrow c^-} f(x) = l$$

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