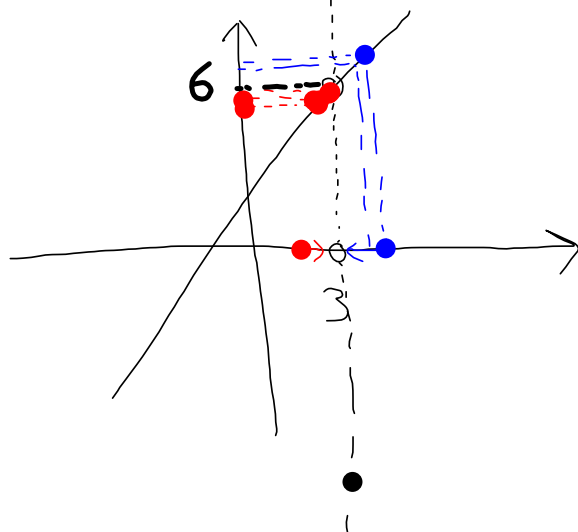


LIMITE DI UNA FUNZIONE



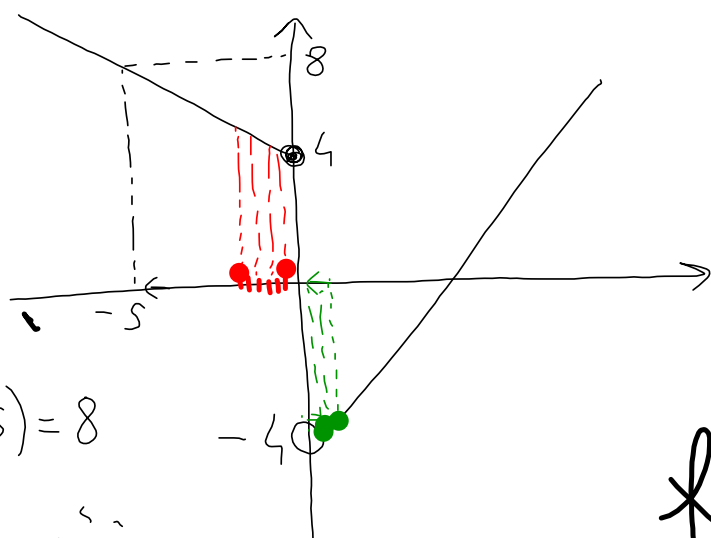
LA FUNZIONE
NON È DEFINITA
PER $x=3$.

$f(3) \rightarrow$ NON ESISTE

$$\lim_{x \rightarrow 3} f(x) = 6$$

$$\lim_{x \rightarrow 3^+} f(x) = 6$$

$$\lim_{x \rightarrow 3^-} f(x) = 6$$



$$f(-5) = 8$$

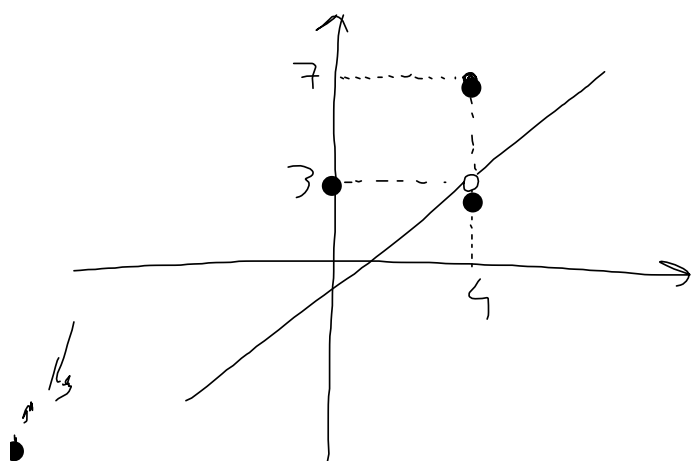
$$\lim_{x \rightarrow 5^-} f(x) = 8$$

$$\lim_{x \rightarrow 5^+} f(x) = 8$$

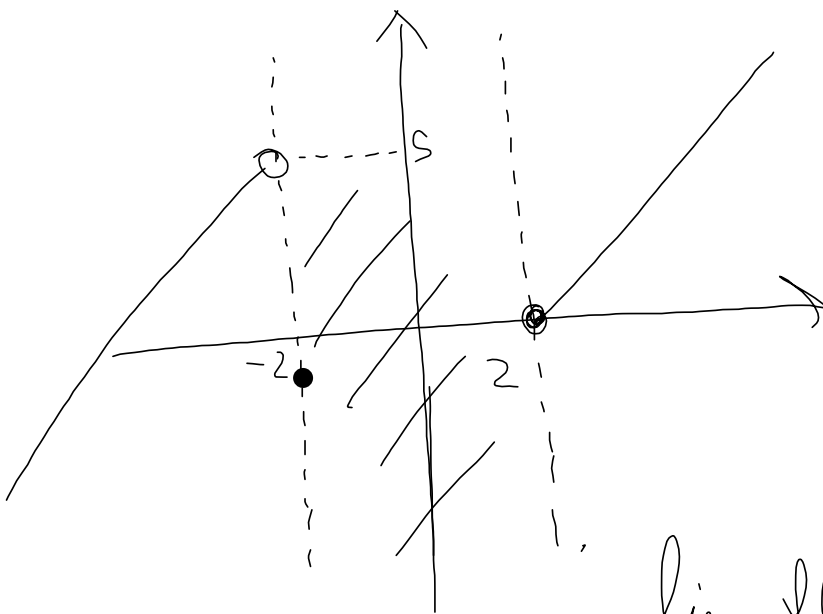
$$\lim_{x \rightarrow 0^-} f(x) = 4$$

$$\lim_{x \rightarrow 0^+} f(x) = -4$$

$$f(0) = 4$$



$$f(4) = 7$$
$$\lim_{x \rightarrow 4^+} f(x) = 3$$
$$\lim_{x \rightarrow 4^-} f(x) = 3$$



$$D: x < -2 \vee x \geq 2$$

$$\lim_{x \rightarrow 2^+} f(x) = 0$$

$$\lim_{x \rightarrow 2^-} f(x) = \text{NON ESISTE}$$

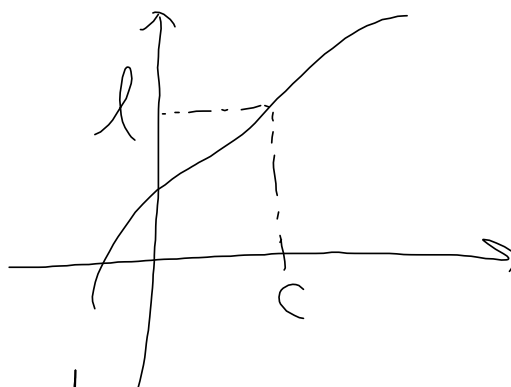
$$\lim_{x \rightarrow -2^+} f(x) = \text{NON ESISTE}$$

$$\lim_{x \rightarrow -2^-} f(x) = 5$$

$$f(2) = 0$$

$$f(-2) = \text{NON ESISTE}$$

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



• $f(x)$ deve essere

definita in un intorno di c .

• $f(x)$ può non essere definita in c .