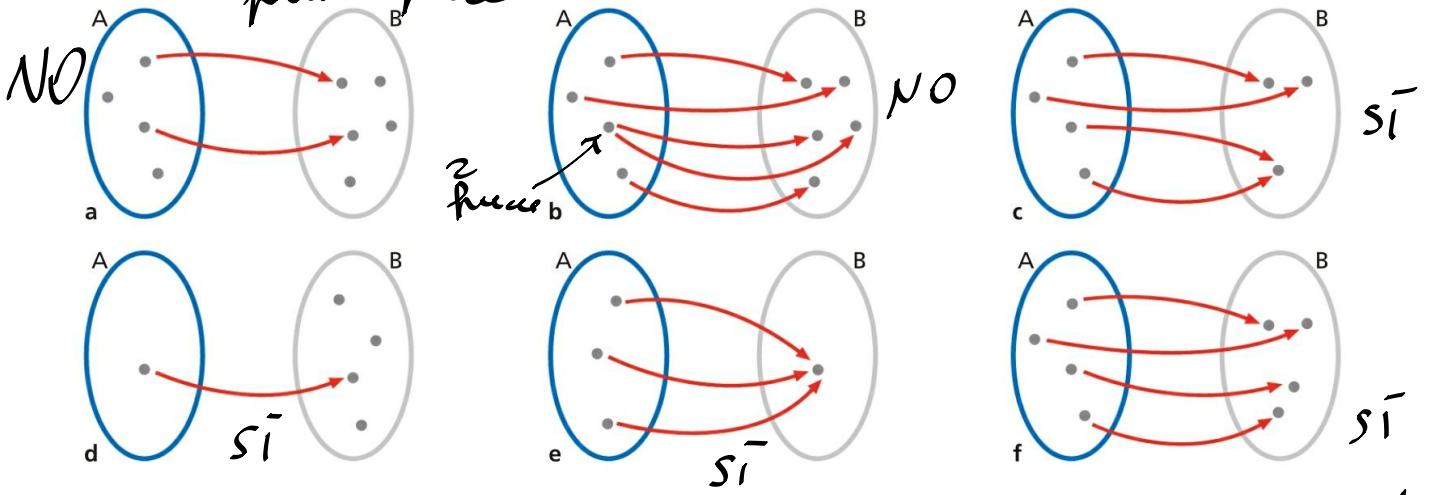


do domini elementi di A non portano più

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$$5x = \frac{1}{6}$$

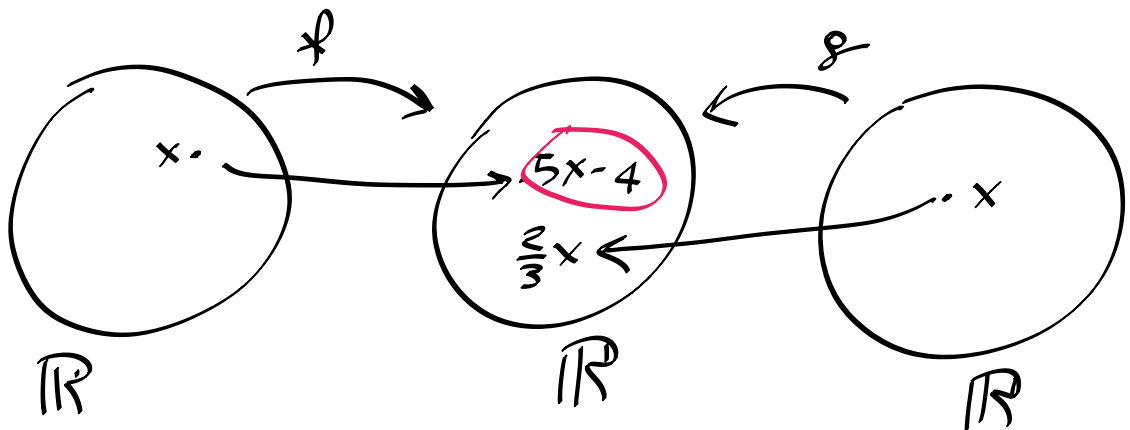
13 $y = 5x$, $15 = f(3)$; $-\frac{35}{2} = f(-\frac{7}{2})$; $-20 = f(-4)$; $\frac{1}{6} = f(\frac{1}{30})$.

14 $y = -\frac{2x}{3}$, $-8 = f(12)$; $-\frac{14}{15} = f(\frac{7}{5})$; $\frac{4}{3} = f(-2)$; $8 = f(-12)$.

$$\frac{4}{3} = -\frac{2x}{3}$$

20 Date le funzioni $y = f(x) = 5x - 4$ e $y = g(x) = \frac{2}{3}x$, determina, se esiste, il valore (o i valori) di x per cui le due funzioni hanno la stessa immagine.

$$\left[x = \frac{12}{13} \right]$$



$$5x - 4 = \frac{2}{3}x \quad \frac{15x - 12}{3} = \frac{2x}{3}$$

$$13x = 12 \Rightarrow x = \frac{12}{13}$$

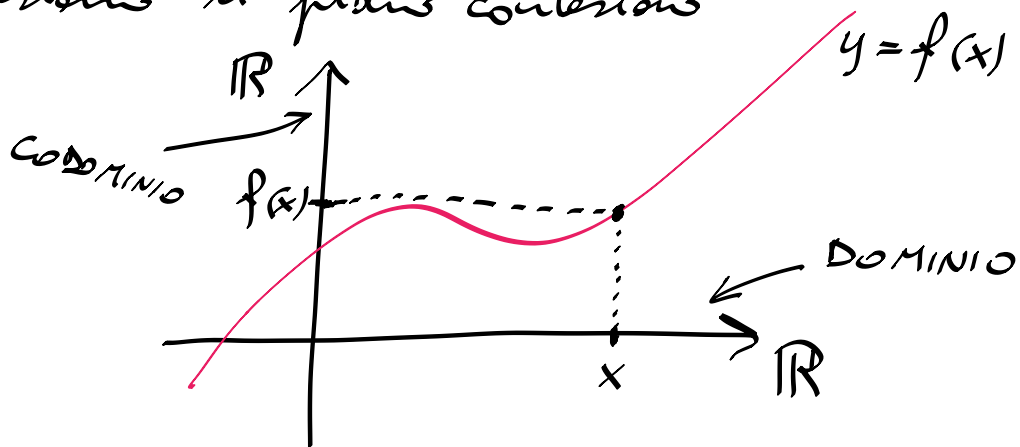
INFA771

$$f\left(\frac{12}{13}\right) = 5 \cdot \frac{12}{13} - 4 = \frac{60}{13} - 4 = \frac{60 - 52}{13} = \frac{8}{13}$$

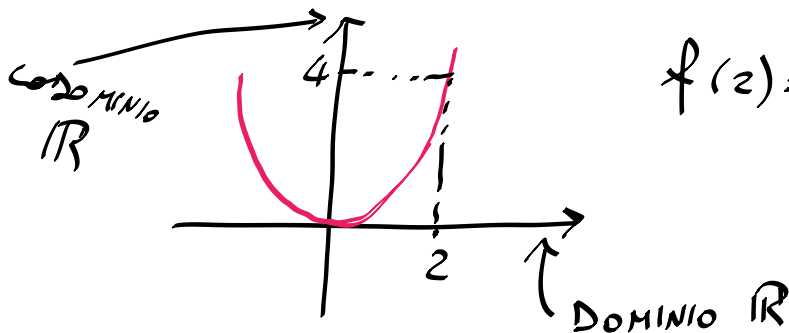
$$g\left(\frac{12}{13}\right) = \frac{2}{3} \cdot \frac{12}{13} = \frac{8}{13}$$

FUNZIONI NUMERICHE $f: \mathbb{R} \rightarrow \mathbb{R}$

anziché usare 
usando il piano cartesiano



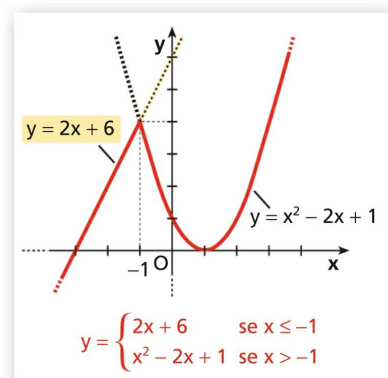
ESEMPIO $f: \mathbb{R} \rightarrow \mathbb{R}$ $f(x) = x^2$



$$f(2) = 2^2 = 4$$

$$f(x) = y = \begin{cases} 2x + 6 & \text{se } x \leq -1 \\ x^2 - 2x + 1 & \text{se } x > -1 \end{cases}$$

DOMINIO = \mathbb{R} CODOMINIO \mathbb{R} $f(-1) = 4$



ESEMPIO DI GIADA

$$f: \mathbb{R} \rightarrow \mathbb{R}$$

$$f(x) = \begin{cases} 3x + 9 & \text{se } x \leq -3 \\ x^2 - 4x + 2 & \text{se } x > -3 \end{cases}$$

DISSEGNA
PER
COMPITO

DOMINIO \rightarrow CALCOLARLO!!

$$1) y = \sqrt{x-2}$$

$$x-2 \geq 0 \rightarrow x \geq 2$$

$$\text{DOMINIO } D: x \geq 2$$

$$2) y = \frac{2}{x+3}$$

$$x+3 \neq 0 \rightarrow D: x \neq -3$$