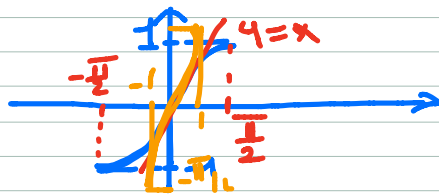
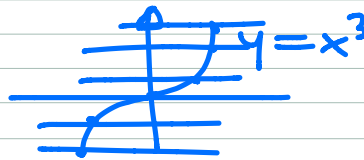
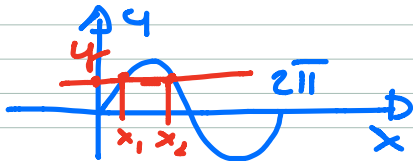
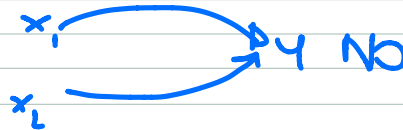
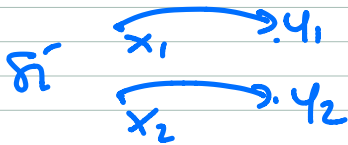


FUNZIONE INIETTIVA

$$y = f(x) \quad \mathcal{D}$$

$$\forall x_1 \neq x_2 \Rightarrow f(x_1) \neq f(x_2)$$

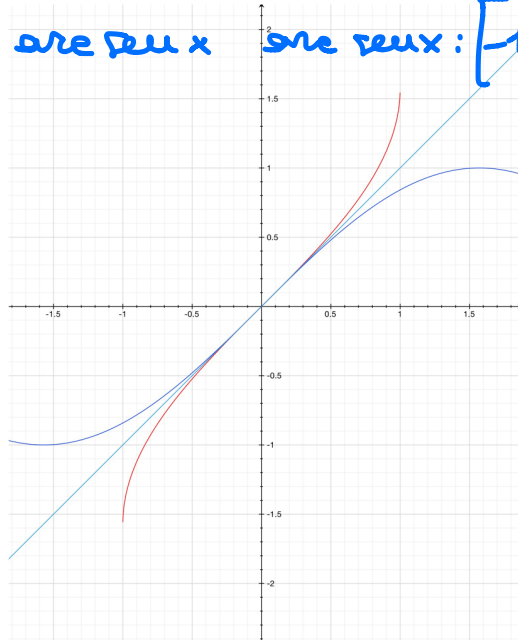


$$\text{sen } x : \left[-\frac{\pi}{2}; \frac{\pi}{2}\right] \rightarrow [-1, 1]$$

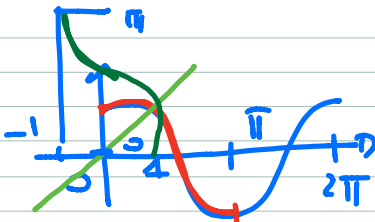
$$f \begin{cases} y = \text{sen } x \\ x = \text{arc sen } y \end{cases}$$

$$f^{-1} \quad x \leftrightarrow y$$

$$f^{-1} : y = \text{arc sen } x \quad \text{arc sen } x : \left[-1, 1\right] \xrightarrow{\mathcal{D}} \left[-\frac{\pi}{2}; \frac{\pi}{2}\right] \xrightarrow{\mathcal{C}}$$



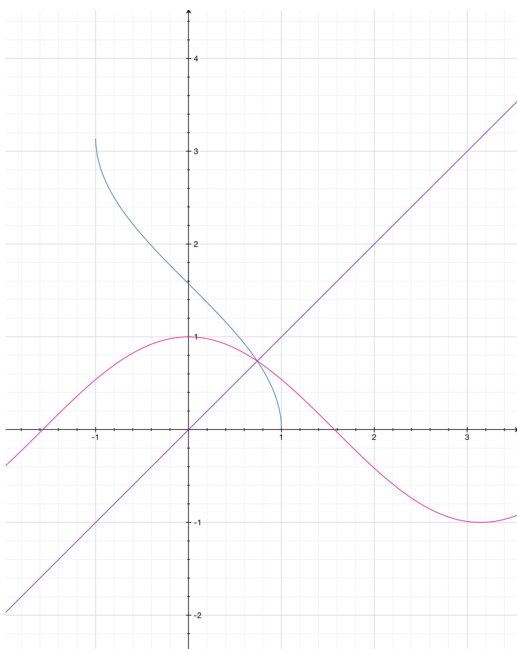
$$y = \cos x$$



$$\cos x: [0, \pi] \rightarrow [-1, 1]$$

$$\left. \begin{array}{l} y = \cos x \\ x = \arccos y \end{array} \right) f$$

$$f^{-1}: y = \arccos x \quad \overset{D}{[-1, 1]} \rightarrow [0, \pi]$$



$$\left. \begin{array}{l} y = \operatorname{tg} x \quad \left(\underset{D}{-\frac{\pi}{2}}, \frac{\pi}{2} \right) \rightarrow \underset{C}{(-\infty; +\infty)} \\ x = \operatorname{arctg} y \end{array} \right) f$$

$$f^{-1}: y = \arctan x \quad (-\infty, +\infty) \rightarrow \left(-\frac{\pi}{2}; \frac{\pi}{2}\right)$$

