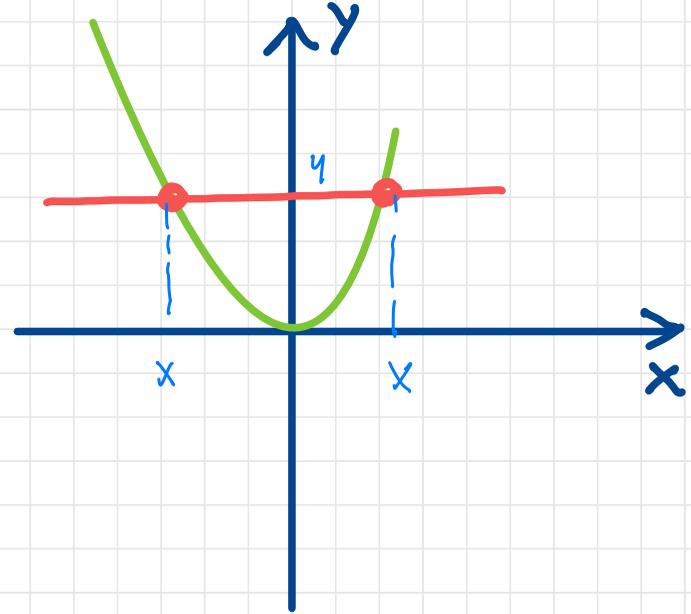
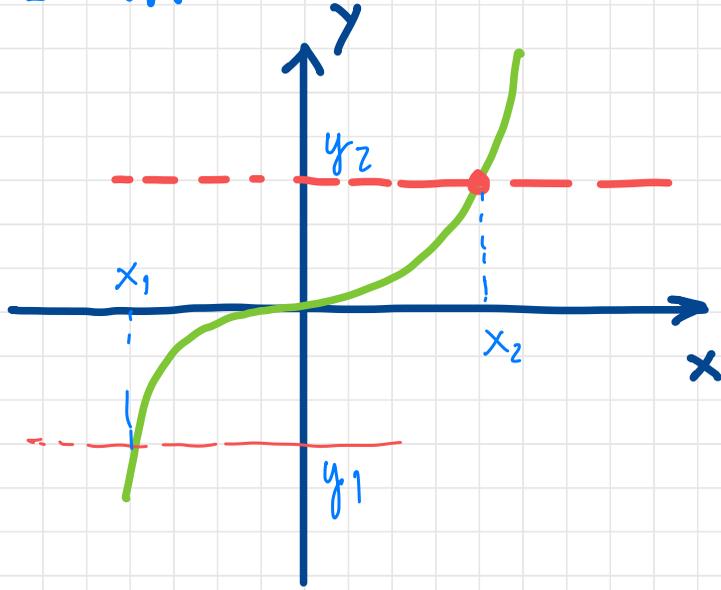


FUNZIONI GONIOMETRICHE INVERSE

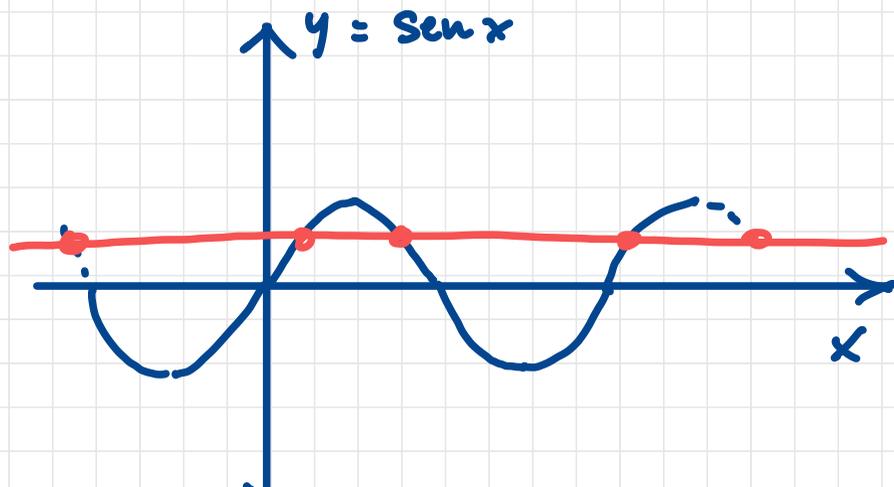


M4009

FUNZIONE INVERTIBILE SE É BIUNIVOCA, SE É
INIETTIVA



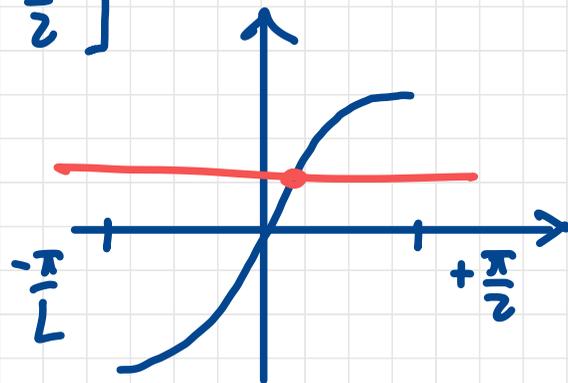
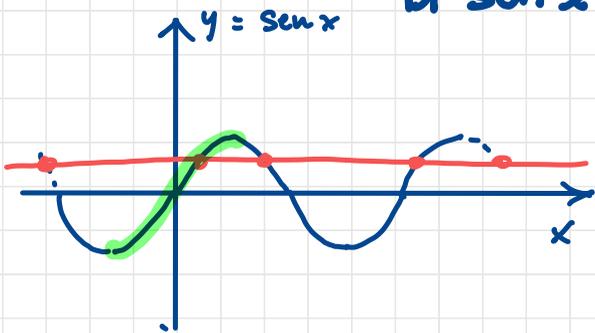
LA FUNZIONE $y = \sin x$ É INVERTIBILE ?



OPERO UNA
RESTRIZIONE DEL
DOMINIO

QUAL È IL DOMINIO DI $y = \text{Sen } x$? \mathbb{R}

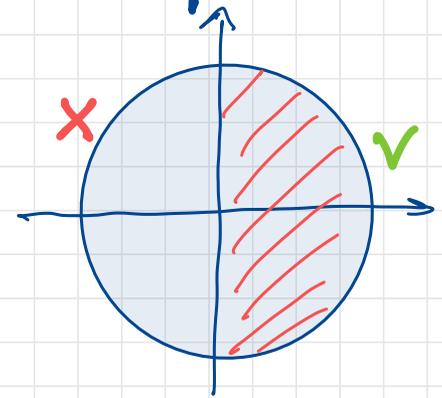
SCELGO COME DOMINIO
DI $\text{Sen } x$ $\left[-\frac{\pi}{2}; +\frac{\pi}{2}\right]$



DEFINISCO $y = \arcsin x$ INVERSA DI $y = \sin x$

\sin^{-1}

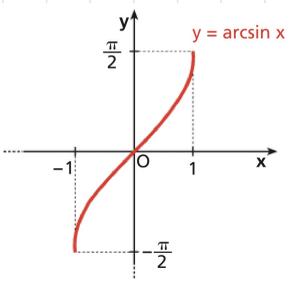
$y = \arcsin x$ IL CHI $\sin x$



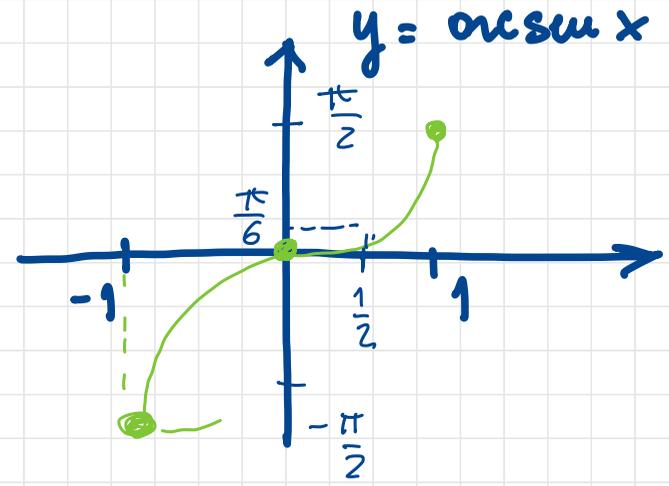
QUAL È IL CODOMINIO $[-\frac{\pi}{2}; \frac{\pi}{2}]$

QUAL È IL DOMINIO? $[-1; 1]$

QUAL È IL GRAFICO



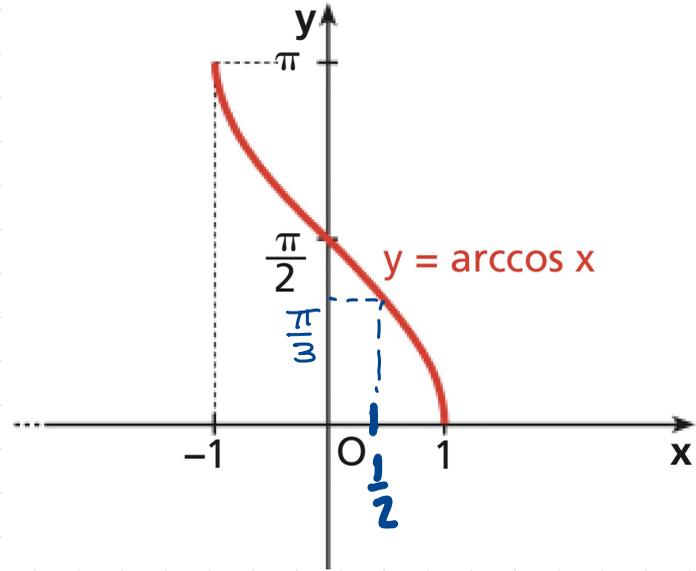
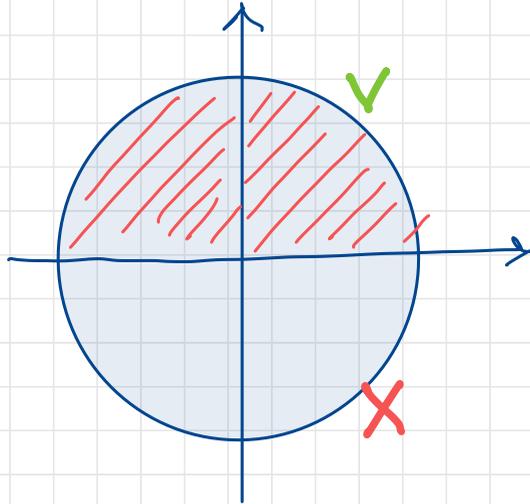
b. Grafico di $y = \arcsin x$.



LA FUNZIONE $y = \arccos x$

DOMINIO $[-1; 1]$

CODOMINIO $[0; \pi]$



$$y = \arctan x$$

DOMINIO \mathbb{R}

CODOMINIO $[-\frac{\pi}{2}; \frac{\pi}{2}]$

