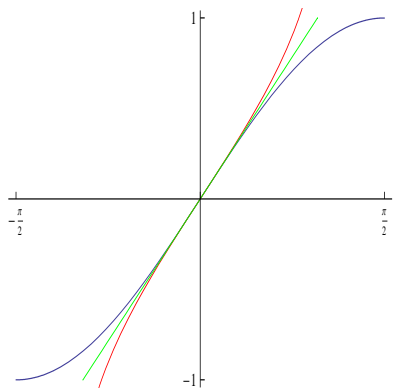


The inverse function of this restricted sine function f exists and is denoted by \sin^{-1} or \arcsin . It is called the **inverse sine function** or the **arcsine function**. Using what we learnt about graphing the inverse functions we can obtain the graph of $\sin^{-1} x$, reflect the graph with respect to the $y = x$ line



to get