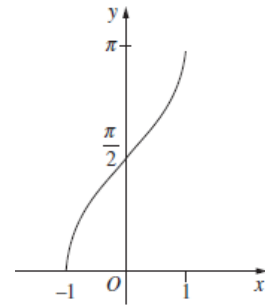
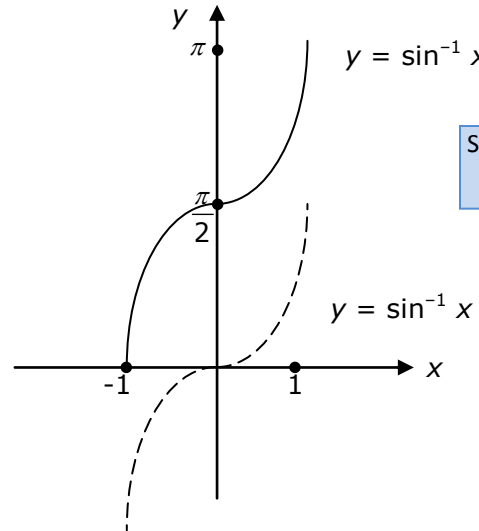


13	9	<p>The diagram shows the graph of a function.</p> <p>Which function does the graph represent?</p> <p>(A) $y = \cos^{-1} x$</p> <p>(B) $y = \frac{\pi}{2} + \sin^{-1} x$</p> <p>(C) $y = -\cos^{-1} x$</p> <p>(A) $y = -\frac{\pi}{2} - \sin^{-1} x$</p>	1
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**B**

The graph is $y = \sin^{-1} x$ 'shifted' $\frac{\pi}{2}$ vertically.

$$\therefore y = \frac{\pi}{2} + \sin^{-1} x$$



* These solutions have been provided by [projectmaths](http://projectmaths.com.au) and are not supplied or endorsed by the Board of Studies