

12	4	<p>Which function best describes the following graph?</p> <p>(A) $y = 3 \sin^{-1} 2x$</p> <p>(B) $y = \frac{3}{2} \sin^{-1} 2x$</p> <p>(C) $y = 3 \sin^{-1} \frac{x}{2}$</p> <p>(D) $y = \frac{3}{2} \sin^{-1} \frac{x}{2}$</p>		1
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C

State Mean:
0.74

For $y = \sin^{-1} x$, domain is $-1 \leq x \leq 1$ and range is $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$.

For this graph, domain is $-2 \leq x \leq 2$ and range is $-\frac{3\pi}{2} \leq y \leq \frac{3\pi}{2}$

This means the function is $y = 3 \sin^{-1} \frac{x}{2}$

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