(i) Find th	ne range of f.	[2]
	in the graph of $y = f(x)$ .	[2]
·	g is defined by $g: x \mapsto 3 - 2\sin x$ , for $0^{\circ} \le x \le A^{\circ}$ , where A is a const	
(iii) State the	he largest value of A for which g has an inverse.	[1]
(iv) When A	A has this value, obtain an expression, in terms of x, for $g^{-1}(x)$ .	[2]

A function f is defined by  $f: x \mapsto 3 - 2\sin x$ , for  $0^{\circ} \le x \le 360^{\circ}$ .