

The diagram shows part of the curve with equation $y = k \sin \frac{1}{2}x$, where k is a positive constant and x is measured in radians. The curve has a minimum point A.

(a)	State the coordinates of A . [1]
(b)	A sequence of transformations is applied to the curve in the following order.
	Translation of 2 units in the negative y-direction
	Reflection in the <i>x</i> -axis
	Find the equation of the new curve and determine the coordinates of the point on the new curve corresponding to A .