

The diagram shows part of the graph of $y = \sin(a(x+b))$, where a and b are positive constants.

(a)	State the value of a and one possible value of b .	[2]
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Another curve, with equation y = f(x), has a single stationary point at the point (p, q), where p and q are constants. This curve is transformed to a curve with equation

$$y = -3f\left(\frac{1}{4}(x+8)\right).$$

(b)	For the transformed curve, find the coordinates of the stationary point, giving your answer in terms of p and q .