11	A curve has equation $y = 5 \ln(1 - \cos 2x)$ , where x is in radians.		
	(a) S	State the values of x for which $5 \ln(1 - \cos 2x)$ is not defined.	[2]
	<b>(b)</b> <i>I</i>	is the stationary point on the curve that has the smallest positive x-coordinate.	
	Ι	Determine the exact coordinates of $P$ .	[4]
	(c) (	i) Show that $\frac{d^2y}{dx^2} + 20e^{-\frac{1}{5}y} = 0$ .	[5]
	(i	i) State what can be deduced about all of the stationary points on this curve, giving a reason for your answer.	[1]