8	$\sin(A+B) = \sin A \cos B + \cos A \sin B$					
	$\tan A = \frac{\sin A}{\cos A}$					
	$\cos A$ (a) Show that the equation					
	$4\sin(x+\alpha) = 7\sin(x-\alpha)$					
	can be written in the form					
	$3\tan x = 11\tan \alpha \tag{5}$					
	(b) Hence solve, to 1 decimal place,					
	$4\sin(3y + 45)^{\circ} = 7\sin(3y - 45)^{\circ} \text{ for } 0 \leqslant y \leqslant 180$					
	(6)					
•••••						
•••••						

Question 8 continued				



Question 8 continued					

Question 8 continued				
	(Total for Question 8 is 11 marks)			

