QUESTION 2		
Code	**Points to score**	**Marks**
A_1	Value of θ: $55^o \le \theta \le 62^o$, 0 decimal places, check from the trace 1 + ½	1½
A_2	Value of d: $55^o \le d \le 62^o$, 0 decimal places, check from the trace 1 + ½	1½
A_3	Substitution into $W = 180^o - \theta - d$	½
A_4	Value of W: $58^o \le W \le 62^o$, correctly calculated, 0 decimal places 1 + ½	1½
		5
B_1	Columnar table of x,α β and α + β @¼.	1
B_2	Units for the columns: (cm), (^{o}), (^{o}), (^{o}) @¼	1
B_3	Values of α decreasing: $34^o - 11^o$ @½	4
B_4	Values of β increasing: $9^o - 34^o$ @1	8
B_5	Values of (α + β) correctly calculated @¼	2
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C_1	Title of the graph: *A graph of (α + β) against x*	½
C_2	Axes: Each axis drawn with an arrow in the increasing +ve direction of the plotted quantity. Each labeled with the quantity together with its unit. @½	1
C_3	Scales: Uniform, each spanning at least ½ pg, demarcations marked, starting values	1
C_4	indicated …….. ½ + ½	4
C_5	Plotting: Each point plotted as exactly as possible with a sharp pencil using a dot or cross (no shading), a star is not acceptable. @½	2
C_6	Best curve with a minimum	1½
	Value of m correctly read and $39^o \le m \le 41^o \Rightarrow$ 1 + ½	
		10
D_1	Substitution into μ sin ½W = sin ½(W + m)	½

D_2	N correctly calculated and $1.50 \leq n \leq 1.60$ to 1 or 2 decimal places	1½
		2
Total = 33		