8	The	quadratic	equation
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$$x^2 - 4k\sqrt{2}x + 2k^4 - 1 = 0$$

where k is a positive constant, has roots α and β

Given that $\alpha^2 + \beta^2 = 66$ and that $\alpha^3 + \beta^3 = p\sqrt{2}$ where p is an integer,

find the value of p

(11)	

l	Question 8 continued
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Question 8 continued	

Question 8 c	ontinued				
			(Total for	Question 8 is	11 marks)

