8	The sum to n terms of an arithmetic series A is S_n

The sum of the first four terms of A is 42 and the fifth term of A is 23

(a) Show that $S_n = \sum_{r=1}^n (Pr - Q)$ where P and Q are prime numbers.

(6)

 $S_{2n} - 3U_n = 1062$ where U_n is the *n*th term of A

(b) Find the value of n

(4)

Question 8 continued	
	(Total for Organism 8 is 10 months)
	(Total for Question 8 is 10 marks)

