5	In triangle ABC, $AB = x$ cm, $BC = (4x - 5)$ cm, $AC = (2x + 3)$ cm and angle $ABC = 60^{\circ}$. Find, to 3 significant figures,		
	(a) the value of x ,	(5)	
	(b) the area of triangle <i>ABC</i> .	(3)	

Question 5 continued
(Total for Question 5 is 8 marks)



6	$f(x) = (p + qx)^6$ where $p \neq 0$ and $q \neq 0$	
	(a) Find the expansion of $f(x)$ in ascending powers of x up to and including the term in simplifying each term as far as possible.	
		(3)
	In the expansion of $f(x)$, 4 times the coefficient of x^4 is equal to 9 times the coefficient of	of x^2
	Given that $(p + q) > 0$ and $f(1) = 15625$	
	(b) find the possible pairs of values of p and q .	(6)
		(0)

Question 6 continued		
(Total for Question 6 is 9 marks)		

