1	(a) Solve the inequality	2x + 7 > 4			
					(2)
	(b) Solve $x^2 - 3x - 40$. Show clear algebraic we	< 0 orking.			
_			(Total for Q	uestion 1 is 5 n	(3) narks)

2	(a) Solve the inequality	5x + 9 > 14			
					(2)
	(b) Solve the inequality 5y ²	$x^2 - 17y \leqslant 40$			()
					(3)
			(Total for	Question 2 is 5	

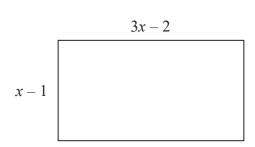
3 (b) Solve the inequality $3x + 17 < 9x + 2$
(2)
(b) Solve the inequality $2y^2 - 7y - 30 \le 0$ Show your working clearly.
(3)
(Total for Question 3 is 5 marks)

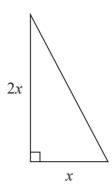
4 Solve the inequality $4x^2 - 5x - 6 > 0$						
	(Total for Question 4 is 4 marks)					

5						
	<i>n</i> is an integer such that $3n + 2 \le 14$ and $\frac{6n}{n^2 + 5} > 1$					
	Find all the possible values of n .					
_	(Total for Question 20 is 5 marks)					

6	Find algebraically the set of values of x for which						
		$x^2 - 49 > 0$	and	$5x^2 - 31x - 72 > 0$			
_				(Total for Question 6 is 5 marks)			

7 Here is a rectangle and a right-angled triangle.





All measurements are in centimetres.

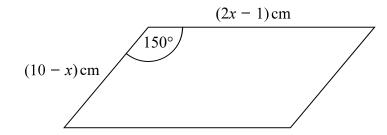
The area of the rectangle is greater than the area of the triangle.

Find the set of possible values of x.

(Total for Question 7 is 5 marks)

8	Here is a rectangle.			
	(2x+2)	3)cm		Diagram NOT accurately drawn
			(x-1) cm	accurately urawn
			(N T) OIII	
	Given that the area of the rectangle is less than 75	cm ²		
	find the range of possible values of x			
_		(Total	for Question 8 is 5	marks)

9 The diagram shows a parallelogram.



The area of the parallelogram is greater than 15 cm²

(a) Show that $2x^2 - 21x + 40 < 0$

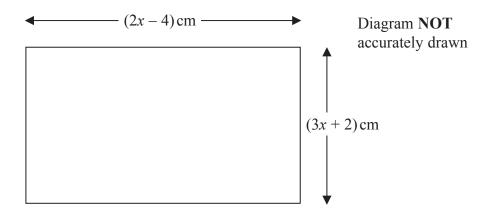
(3)

(b) Find the range of possible values of x.

(2)

(Total for Question 9 is 6 marks)

10 The diagram shows a rectangle.



The area of the rectangle is $A \text{ cm}^2$

Given that A < 3x + 27 find the range of possible values for x.