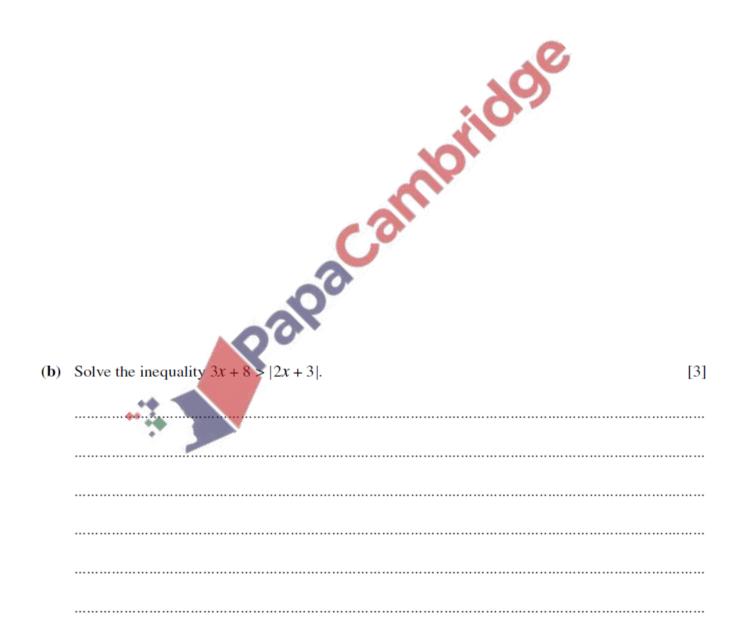
- 1. June/2023/Paper\_9709/31/No.2
  - (a) Sketch the graph of y = |2x + 3|.

[1]



2.	June/2023/Paper_9709/31/No.10				
	The	e polynomial $x^3 + 5x^2 + 31x + 75$ is denoted by $p(x)$ .			
	(a)	Show that $(x + 3)$ is a factor of $p(x)$ .	[2		
			100		
	<b>(b)</b>	Show that $z = -1 + 2\sqrt{6}i$ is a root of $p(z) = 0$ .	[3		
		10	*		
		100			
		***			

Hence find the complex numbers z which are roots of $p(z^2) = 0$ .	[7]
	<u>.</u>
CY	
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(c)

Solve the inequality $ 5x - 3  < 2 3x - 7 $ .	
	20
	•
A O'C'	

4.	June/2023/Paper_9709/33/No.2	
	Find the quotient and remainder when $2x^4 - 27$ is divided by $x^2 + x + 3$ .	[3]