AQA Pure Mathematics 2 分类真题 2019-2022 册

A Level Clouds 出品

目录		
Chapter 1 Functions	1	
Chapter 2 Binomial Series	16	
Chapter 3 Trigonometric Functions and Formulae	2 7	
Chapter 4 Exponential and Logarithmic Functions	42	
Chapter 5 Differentiation	45	
Chapter 6 Integration	70	
Chapter 7 Differential Equations	92	
Chapter 8 Numerical Methods	104	
Chapter 9 Vectors	119	

evel clouds this Chapter 1
Functions A Level evelouds

Q1: 2019/June/P2

3 (a)	The polynomial $f(x)$ is defined by
	$f(x) = 4x^3 + bx^2 + cx + 6$
	where b and c are constants.
	When $f(x)$ is divided by $(2x-3)$ the remainder is -6
	When $f(x)$ is divided by $(2x + 1)$ the remainder is 10
	Find the value of b and the value of c .
	[4 marks]
	16
	,0,2
	70, 70,
	b = c =

3 (b)	Simplify $\frac{4x^2-1}{4x^2+4x-3}$, giving your answer in the form $1+g(x)$.	
	4x + 4x - 3 [4 ma	arks]
	03 25	
	(0)	
	19	
	<u> </u>	
		X
		J
	Answer	

Q2: 2019/June/P2

9 The function f is defined by

$$f(x) = |x^2 - 5| -3$$
 for $-5 \le x \le 5$

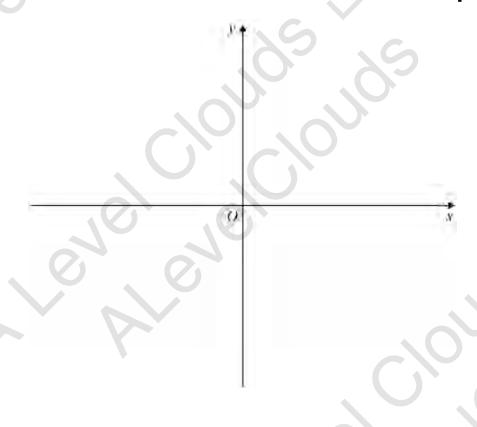
9 (a) (i) Write down the range of f.

[1 mark]

Answer

9 (a) (ii) Sketch the graph of y = f(x), indicating the value where the curve crosses the y-axis.

[3 marks]



9 (a) (iii)	Solve $f(x) = 1$				[3 marks]
					- 1
		5			
	0)	<u>J'</u>		<u> </u>	
		_			
)	18,	Answer _			
9 (b)	The function g is defined by	$g(x) = \frac{1}{x}$	where $x \neq 0$	25	
9 (b) (i)	Find an expression for $fg(x)$		~/0/		[1 mark]
	200	Answer _			
9 (b) (ii)	Solve $fg(x) < 0$. 6
C (2) ()				.([3 marks]
			•		
			16		0)
		•	(0)	(O)	
		Answer _			