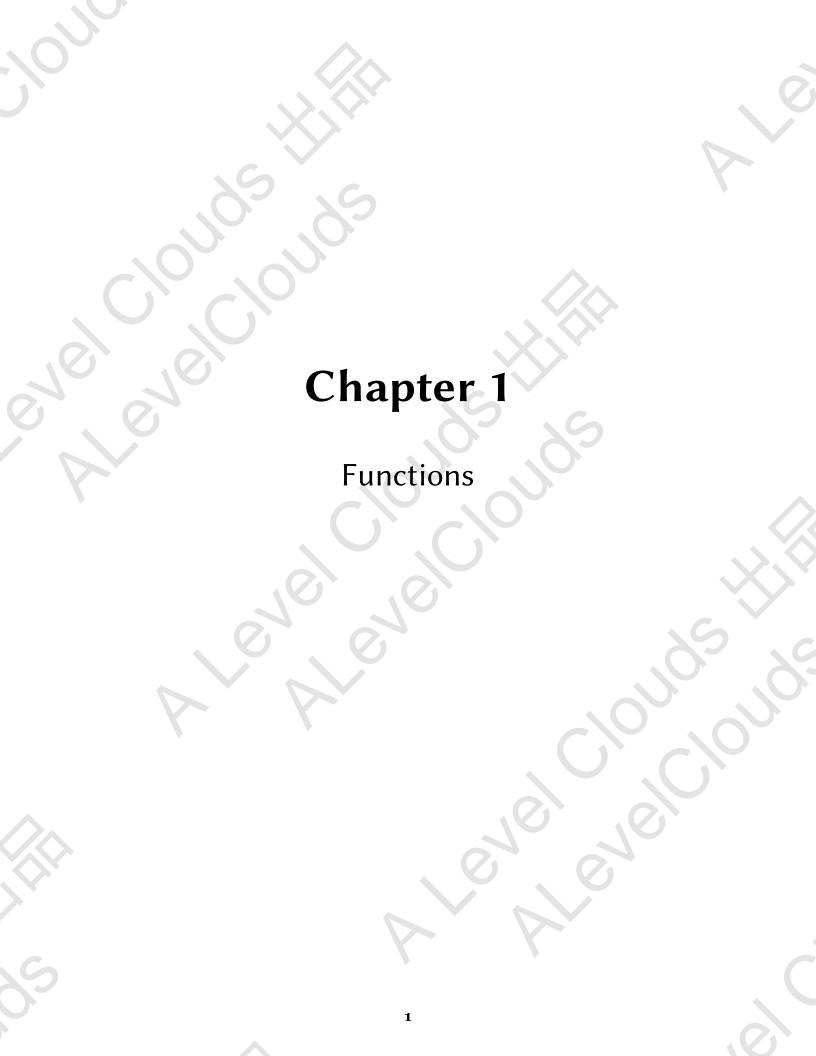
## AQA Pure Mathematics 2 分类真题 2019-2022 册

A Level Clouds 出品

	目录	
(0)	Chapter 1 Functions	1
0	Chapter 2 Binomial Series	16
	Chapter 3 Trigonometric Functions and Formulae	<b>2</b> 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



## 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
K	10, 70
	b = c =

3 (b)	Simplify $\frac{4x^2-1}{4x^2+4x-3}$ , giving your answer in the form $1+g(x)$ .	
	$\begin{array}{c} 4x + 4x - 3 \\ \end{array} \qquad \qquad \boxed{\text{[4 mark:}}$	s]
		_
	70, 72	—
		_
	10	_
		_
	)	
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	<u> </u>	
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		_
		_
	Answer	_

## **Q2: 2019/June/P2**

**9** The function f is defined by

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

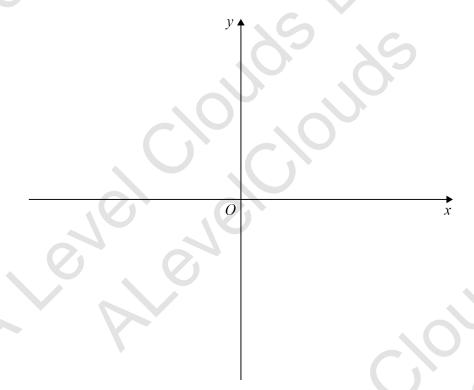
**9** (a) (i) Write down the range of f.

[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]
	-10, -7	5		
	0, 9			
		Answer		<b>)</b>
9 (b)	The function $g$ is defined by	$g(x) = \frac{1}{x}$	where $x \neq 0$	
9 (b) (i)	Find an expression for $fg(x)$ .			[1 mark]
	6/8/	Answer		
9 (b) (ii)	Solve $fg(x) < 0$			
	<u> </u>			[3 marks]
				-(6)
			0	2
		Answer		
			▼	