爱德思 Further Pure Mathematics 3

分类真题

2014-2022 册

A Level Clouds 出品

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Chapter 1 Hyperbolic Functions 1

Q1: 2014/June/F3

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3.	Using the definitions of $\sinh x$ and $\cosh x$ in terms of exponentials,	Otalik
	(a) prove that	
	$\cosh^2 x - \sinh^2 x \equiv 1 \tag{2}$	
	(b) find algebraically the exact solutions of the equation	
	$2 \sinh x + 7 \cosh x = 9$	
	giving your answers as natural logarithms.	
	giving your unswers as natural regardings.	
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Q2: 2015/June/F3

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1.	Find the exact values of x for which	
	$\cosh 2x - 7\sinh x = 5$	
	$\cos i 2x - 7 \sin i x - 3$	
	giving your answers as natural logarithms.	
	(7)	
	10, 10,	

