

Long Division of Polynomials

Revise this topic





Check your work

This booklet features original exam style questions designed by me. They do not feature in past papers but are good practice for your exams.

The content is designed to reflect the style of the AQA Level 2 Certificate in Further Maths.

It may not be suitable for other courses.



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	Answer all questions in	n the spaces provided.	
1	Use long division to find the result of	$(x^3 + 9x^2 + 26x + 24) \div (x + 3)$	[2 marks]
	Answer		
2	Use long division to find the result of	$(x^3 + 8x^2 + 17x + 10) \div (x + 5)$	[2 marks]
	Answer		



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Use long division to	find the result of ($(x^3 + 5x^2 + 2x - 8)$	8) ÷ (<i>x</i> + 2)	[2 m
A	nswer			
A Use long division to				
				[2 m
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	o find the result of) ÷ (x – 3)	
	o find the result of	$(x^3 - 4x^2 + x + 6)$) ÷ (x – 3)	
	o find the result of	$(x^3 - 4x^2 + x + 6)$) ÷ (x – 3)	[2 m
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5	Use long division to find the result of $(2x^3 + 7x^2 - 17x - 10) \div (2x + 1)$	
	Answer	
6	Use long division to find the result of $(3x^3 - 4x^2 - 13x - 6) \div (3x + 2)$	[2 marks]
	Answer	

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	5)
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Answer	
	4)
Answer Use long division to find the result of $(4x^3 + 16x^2 - x - 4) \div (2x - x^2 - 4)$	
	1) [2 n

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	$+8x^2 + kx + 12$) without remained	Ţ4	4 m
Find the value of <i>k</i> .		•	
	,		
Use long division to fi	$k = \underline{\hspace{1cm}}$ and the result of $(2x^4 - 10x^2 + 3x^2)$	$(x + 2) \div (x - 2)$	
Use long division to fi			3 r
Use long division to fi			3 r
		[:	3 r
	nd the result of $(2x^4 - 10x^2 + 3x^4)$	[:	3 r
	nd the result of $(2x^4 - 10x^2 + 3x^4)$	[:	3 r
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	nd the result of $(2x^4 - 10x^2 + 3x^4)$	[:	3 r