Advanced Higher Maths Past Papers: Topic-by-topic
Unit 1: Methods in Algebra & Calculus

PARTIAL FRACTIONS

Year	Q	#
2011	1a	1
2001	A5a	2
2004	5a	3
2007	4a	4
2008	4a	5
2005	13a	6
2009	14a	7
2012	15a	8
2002	8a	9

DIFFERENTIATION (Part 1)

Year	Q	#
2007	2a	1
2001	A2b	2
2003	1a	3
2009	1a	4
2011	3b	5
2002	4a	6
2013	2	7
2004	1a	8
2014	1a	9
2012	1	10
2006	2b	11
2005	1	12
2010	1	13
2008	15	14
2006	10	15
2014	13	16

DIFFERENTIATION (Part 2)

...with Inverse Trig

Year	Q	#
2012	11a	1
2008	2a	2
2014	1b	3
2006	2a	4
2001	A2a	5
2004	1b	6
2006	11b	7

Implicit Differntiation

Year	Q	#
2001	A7	8
2011	3a	9
2008	5	10
2003	3	11
2005	2	12
2009	1b	13
2006	4	14
2013	11	15
2014	6	16
2012	12	17

Logarithmic ...

Year	Q	#
2003	1b	18
2007	2b	19
2009	11	20
2002	4b	21
2011	7	22

Parametric ...

Year	Q	#
2014	4	23
2004	3	24
2008	2b	25
2002	3	26
2007	13	27
2010	13	28
2012	13	29

INTEGRATION (Part 1)

Standard Integrals

Year	Q	#
2008	9	1
2011	11a	2

Substitution or f '(x)/f(x)

Year	Q	#
2006	6	3
2013	6	4
2003	5	5
2005	5	6
2010	3a	7
2011	11b	8
2009	5	9
2004	9	10
2012	8	11
2009	7	12
2014	12	13
2002	6	14

...with Partial Fractions

Year	Q	#
2011	1b	15
2004	5b	16
2007	4b	17
2010	7	18
2001	A5b	19
2008	4b	20
2005	13b	21

Integration by Parts

Year	Q	#
2001	A3	22
2010	3b	23
2009	9	24
2013	8	25
2008	7	26
2006	14b,c	27
2002	5	28
2007	16b	29
2012	11b	30
2005	15	31
2006	17	32
2003	10	33
2014	15	34
2011	16	35

DIFFERENTIAL EQUATIONS

Diff Eq (Variable Separable)

Year	Q	#
2009	3	1
2002	9	2
2004	15b	3
2011	9	4
2001	A10	5
2007	14	6
2013	16	7
2003	11	8

Diff Eq (Integrating Factor)

Year	Q	#
2001	B2	9
2004	15a	10
2009	15a	11
2012	15b	12

Diff Eq (2nd Order)

Year	Q	#
2010	11	13
2006	8	14
2014	8	15
2001	B5	16
2007	8	17
2003	17	18
2008	13	19
2005	14	20
2002	15	21
2011	14	22
2013	14	23

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Unit 2: Applications in Algebra & Calculus

BINOMIAL EXPANSION			SEQUENCES & SERIES			PROPERTIES OF FUNCTIONS			SUMMATION		
2004	2	1	Arithmetic & Geometric			2008	3	1	2003	2	1
2007	1	2	2008	1	1	2001	A8	2	2011	8	2
2001	A6	3	2010	2	2	2002	8b	3	2003	16b	3
2011	2	4	2012	2	3	2009	13	4	2007	9	4
2013	1	5	2005	4	4	2006	14a	5			
2009	8	6	2009	12	5	2004	10	6	PROOF BY INDUCTION		
2008	8	7	2011	13	6	2010	10	7	Part 1		
2012	4	8	2006	16	7	2006	12	8	2003	16a	1
2014	2	9	2004	16	8	2003	7	9	2001	A4	2
2010	5	10	2013	17	9	2005	11	10	2013	9	3
			Maclaurin's Series			2011	6	11	2009	4	4
COMPLEX NUMBERS			2014	9	10	2007	16a,c	12	2005	10	5
2012	3	1	2012	6	11	2004	13	13	2004	12	6
2007	3	2	2007	6	12	2014	11	14	2012	16a	7
2002	2	3	2005	3	13	2013	13	15	2010	8b	8
2004	4	4	2009	14b	14	2012	7	16	Part 2		
2003	4	5	2003	15	15				2002	12	9
2013	10	6	2010	9	16	INTEGRATION (Part 2)			2014	7	10
2011	10	7	2001	B4	17	…in context			2002	7	11
2007	11	8	2011	5	18	2013	4	1	2011	12	12
2009	6	9	2004	7	19	2008	10	2	2007	12	13
2013	7	10	2002	13	20	2009	15b	3			
2005	9	11	2008	12	21	2014	10	4			
2006	3	12	Other Series			2004	11	5			
2012	16	13	2014	14	22	2007	10	6			
2005	12	14	2002	10	23	2010	15	7			
2003	9	15									
2008	16	16									
2001	A9	17									
2010	16	18									
2014	16	19									

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Unit 3: Applications in Algebra & Calculus

MATRICES			VECTORS			PROOF (but **not** Induction)			COMPLEX NUMBERS		
2013	3	1	2010	6	1	2010	8a	1	2012	3	1
2006	1	2	2014	5	2	2013	12	2	2007	3	2
2009	2	3	2003	12	3	2008	11	3	2002	2	3
2008	6	4	2012	5	4	2003	8	4	2004	4	4
2011	4	5	2002	11	5	2006	7	5	2003	4	5
2007	5	6	2013	15	6	2010	12	6	2013	10	6
2001	B3	7	2004	14	7	2010	5	7	2011	10	7
2005	7	8	2008	14	8				2007	11	8
2012	9	9	2005	8	9	**NUMBER THEORY**			2009	6	9
2003	13	10	2009	16b,c	10	2012	10	1	2013	7	10
2006	13	11	2011	15	11	2004	8	2	2005	9	11
2004	6	12	2001	B6	12	2013	5	3	2006	3	12
2010	4	13	2006	15	13	2009	10	4	2012	16	13
2002	14	14	2007	15	14	2001	B1	5	2005	12	14
2010	14b	15				2007	7	6	2003	9	15
									2008	16	16
SYSTEMS OF EQUATIONS									2001	A9	17
2002	1	1							2010	16	18
2001	A1	2							2014	16	19
2009	16a	3									
2014	3	4									
2010	14a	5									
2003	6	6									
2005	6	7									
2006	9	8									
2012	14	9									