
GCSE Mathematics

Difference of Two Squares

Mark Scheme - Higher | Grades 6-7

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 6 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	$(x + 4)(x - 4)$	B1

Q2 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$4x^2 = (2x)^2$ and $9 = 3^2$	M1
(a)	$(2x + 3)(2x - 3)$	A1

Q3 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	x^2 and y^2 are both perfect squares	M1
(a)	$(x + y)(x - y)$	A1

Q4 Grade 7 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	common factor 2: $2(x^2 - 16)$	M1
(a)	$x^2 - 16 = (x + 4)(x - 4)$	M1
(a)	$2(x + 4)(x - 4)$	A1

Q5 Grade 7 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$51^2 - 49^2 = (51 + 49)(51 - 49)$	M1
(a)	$= 100 \times 2$	M1
(a)	200	A1

AQA-style questions

Q6 Grade 6 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	$(x + 5)(x - 5)$	B1

Q7 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$9x^2 = (3x)^2$ and $16 = 4^2$	M1
(a)	$(3x + 4)(3x - 4)$	A1

Q8 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$9a^2 = (3a)^2$ and $4b^2 = (2b)^2$	M1
(a)	$(3a + 2b)(3a - 2b)$	A1

Q9 Grade 7 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	common factor 3: $3(x^2 - 25)$	M1
(a)	$x^2 - 25 = (x + 5)(x - 5)$	M1
(a)	$3(x + 5)(x - 5)$	A1

Q10 Grade 7 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$62^2 - 58^2 = (62 + 58)(62 - 58)$	M1
(a)	$= 120 \times 4$	M1
(a)	480	A1

OCR-style questions

Q11 Grade 6 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	$(x + 7)(x - 7)$	B1

Q12 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$25x^2 = (5x)^2$ and $4 = 2^2$	M1
(a)	$(5x + 2)(5x - 2)$	A1

Q13 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$4p^2 = (2p)^2$ and $25q^2 = (5q)^2$	M1
(a)	$(2p + 5q)(2p - 5q)$	A1

Q14 Grade 7 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	common factor 5: $5(x^2 - 16)$	M1
(a)	$x^2 - 16 = (x + 4)(x - 4)$	M1
(a)	$5(x + 4)(x - 4)$	A1

Q15 Grade 7 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$73^2 - 67^2 = (73 + 67)(73 - 67)$	M1
(a)	$= 140 \times 6$	M1
(a)	840	A1

Teachably-style questions

Q16 Grade 6 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	$(x + 9)(x - 9)$	B1

Q17 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$16x^2 = (4x)^2$ and $49 = 7^2$	M1
(a)	$(4x + 7)(4x - 7)$	A1

Q18 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$16m^2 = (4m)^2$ and $9n^2 = (3n)^2$	M1
(a)	$(4m + 3n)(4m - 3n)$	A1

Q19 Grade 7 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	common factor 4: $4(x^2 - 9)$	M1
(a)	$x^2 - 9 = (x + 3)(x - 3)$	M1
(a)	$4(x + 3)(x - 3)$	A1

Q20 Grade 7 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$105^2 - 95^2 = (105 + 95)(105 - 95)$	M1
(a)	$= 200 \times 10$	M1
(a)	2000	A1

END OF PAPER

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