
GCSE Mathematics

Quadratic Graphs Practice

Mark Scheme - Foundation/Higher, Grade 5-7

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

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Edexcel-style questions

Q1 Grade 5 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$y = 6$, $y = 2$, $y = 11$	B3

Q2 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$x = 3$ gives $y = 5$	M1
(a)	$x = -1$ gives $y = -3$	A1

Q3 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	roots: $x = 0$ and $x = 4$	M1
(a)	turning point: $(2, -4)$	A1

Q4 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$(x - 2)(x - 3) = 0$	M1
(a)	$x = 2$ and $x = 3$	A1

Q5 Grade 7 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$(x - 3)^2 - 4$	M1
(a)	$(3, -4)$	A1

AQA-style questions

Q6 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$y = 4$, $y = -2$, $y = 4$	B3

Q7 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$x = 4$ gives $y = 5$	M1
(a)	$x = 0$ gives $y = -3$	A1

Q8 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	roots: $x = -2$ and $x = 4$	M1
(a)	turning point: $(1, -9)$	A1

Q9 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$(x + 5)(x - 2) = 0$	M1
(a)	$x = -5$ and $x = 2$	A1

Q10 Grade 7 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$(x + 2)^2 - 3$	M1
(a)	$(-2, -3)$	A1

OCR-style questions**Q11** Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$y = 3, y = -5, y = 3$	B3

Q12 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$x = 3$ gives $y = 10$	M1
(a)	$x = -1$ gives $y = -6$	A1

Q13 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	roots: $x = 2$ and $x = 4$	M1
(a)	turning point: $(3, -1)$	A1

Q14 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$(x - 4)(x + 3) = 0$	M1
(a)	$x = 4$ and $x = -3$	A1

Q15 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$(x - 4)^2 - 6$	M1
(a)	$(4, -6)$	A1

Teachably-style questions

Q16 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$y = 0, y = -6, y = 0$	B3

Q17 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$x = 2$ gives $y = 5$	M1
(a)	$x = -2$ gives $y = -3$	A1

Q18 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	roots: $x = -4$ and $x = 0$	M1
(a)	turning point: $(-2, -4)$	A1

Q19 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$(x + 3)(x + 4) = 0$	M1
(a)	$x = -3$ and $x = -4$	A1

Q20 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$(x + 1)^2 - 6$	M1
(a)	$(-1, -6)$	A1

END OF PAPER

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