
GCSE Mathematics

Gradient, Parallel & Perpendicular Lines Practice

Mark Scheme - Foundation/Higher, Grade 5-8

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: 2

Part	Mark scheme	Marks
(a)	$\frac{10 - 2}{5 - 1}$	M1
(a)	2	A1

Q2 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	both have gradient 3	M1
(a)	Yes, the lines are parallel	A1

Q3 Grade 6 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	gradient = 2	M1
(a)	$9 = 2(1) + c, c = 7$	M1
(a)	$y = 2x + 7$	A1

Q4 Grade 7 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	$-\frac{1}{2}$	B1

Q5 Grade 8 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	perpendicular gradient = $-\frac{1}{2}$	M1
(a)	$3 = -\frac{1}{2}(4) + c, c = 5$	M1
(a)	$y = -\frac{1}{2}x + 5$	A1

AQA-style questions

Q6 Grade 5 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	$\frac{-1 - 5}{4 - -2}$	M1
(a)	-1	A1

Q7 Grade 5 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	gradients are 2 and 4	M1
(a)	No, the lines are not parallel	A1

Q8 Grade 6 AQA style**Total: 3**

Part	Mark scheme	Marks
(a)	gradient = -3	M1
(a)	$-1 = -3(2) + c$, $c = 5$	M1
(a)	$y = -3x + 5$	A1

Q9 Grade 7 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	$\frac{1}{4}$	B1

Q10 Grade 8 AQA style**Total: 3**

Part	Mark scheme	Marks
(a)	perpendicular gradient = $-\frac{1}{3}$	M1
(a)	$1 = -\frac{1}{3}(6) + c$, $c = 3$	M1
(a)	$y = -\frac{1}{3}x + 3$	A1

OCR-style questions

Q11 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{9 - -3}{4 - 0}$	M1
(a)	3	A1

Q12 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	both have gradient -1	M1
(a)	Yes, the lines are parallel	A1

Q13 Grade 6 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	gradient = 4	M1
(a)	$3 = 4(-1) + c, c = 7$	M1
(a)	$y = 4x + 7$	A1

Q14 Grade 7 OCR style

Total: 1

Part	Mark scheme	Marks
(a)	$-\frac{5}{3}$	B1

Q15 Grade 8 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	perpendicular gradient = $\frac{1}{4}$	M1
(a)	$3 = \frac{1}{4}(8) + c, c = 1$	M1
(a)	$y = \frac{1}{4}x + 1$	A1

Teachably-style questions

Q16 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$\frac{-8 - 4}{1 - -3}$	M1
(a)	-3	A1

Q17 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	gradients are 5 and 2	M1
(a)	No, the lines are not parallel	A1

Q18 Grade 6 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	gradient = -2	M1
(a)	$1 = -2(3) + c, c = 7$	M1
(a)	$y = -2x + 7$	A1

Q19 Grade 7 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	$\frac{3}{2}$	B1

Q20 Grade 8 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	perpendicular gradient = 1	M1
(a)	$-3 = 1(-2) + c, c = -1$	M1
(a)	$y = x - 1$	A1

END OF PAPER

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