

Paper: 1MA1/2H					
Question	Answer	Mark	Mark scheme	Additional guidance	
5   <b>Q1</b>	(a)	0, -4, -6, -4, 0	B2 (B1)	fully correct figures at least 2 correct figures)	
	(b)	Graph	M1 A1	(dep B1) for at least 5 points correctly plotted fit from (a) fully correct graph	Must be a curve
	(c)	2.6 and -1.6	M1	for $y = -2$ drawn <b>or</b> intersections with $y = -2$ <b>or</b> $y = x^2 - x - 4$ drawn <b>or</b> 1 correct value	If answers stated as coordinates, award M1 for both coordinates and M0 for one coordinate
			A1	fit a quadratic graph <b>or</b> for answers in the range 2.5 to 2.7 <b>and</b> -1.5 to -1.7	

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Question	Answer	Mark	Mark scheme	Additional guidance																
Q2	Graph	B3	for a correct line between $x = -2$ and $x = 4$	Ignore any incorrect points. Points need not be plotted for a correct line (segment) drawn  Table of values <table border="1"> <tr> <td><math>x</math></td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td><math>y</math></td> <td>-7</td> <td>-5</td> <td>-3</td> <td>-1</td> <td>1</td> <td>3</td> <td>5</td> </tr> </table>	$x$	-2	-1	0	1	2	3	4	$y$	-7	-5	-3	-1	1	3	5
		$x$	-2		-1	0	1	2	3	4										
$y$	-7	-5	-3	-1	1	3	5													
(B2)	for a correct straight line segment through at least 3 of $(-2, -7), (-1, -5), (0, -3), (1, -1), (2, 1), (3, 3), (4, 5)$  <b>or</b> for all of these points plotted but not joined  <b>OR</b> for a line drawn with a positive gradient through $(0, -3)$ <b>and</b> clear intention to use a gradient of 2, eg line through $(0, -3)$ going across 2 squares and up 4 squares )	(B1)	for at least 2 correct points stated or plotted  <b>OR</b> for a line drawn with a positive gradient through $(0, -3)$  <b>OR</b> a line with gradient 2)	Ignore any incorrect points Coordinates may be in a table or in working																

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Question	Answer	Mark	Mark scheme	Additional guidance	
4	(a)	13, (6), 5, 4, -3	B2	for all 4 values correct	
			(B1	for 2 or 3 correct values)	
	(b)	Correct graph	M1	ft (dep on B1) for plotting at least 4 of the points from their table correctly	
<b>Q3</b>			A1	for a fully correct curve drawn	
				Accept a freehand curve drawn that is not made of line segments Line sections outside the required range can be ignored.	

Paper: 1MA1/2H					
Question	Answer	Mark	Mark scheme	Additional guidance	
4     <b>Q4</b>	(a)	(10), 5, (2), 1, 2, (5), 10	B2	for all 4 values correct	Accept a freehand curve drawn that is not made of line segments  If answers stated as coordinates, award M1 for both coordinates and M0 for one coordinate
			(B1)	for 2 or 3 correct values)	
	(b)	Graph	M1	ft (dep on B1) for plotting at least 5 of their points correctly	
			A1	for a fully correct curve drawn	
	(c)	-0.65 to -0.8 and 2.65 to 2.8	M1	for $y = 4$ drawn <b>or</b> intersection with $y = 4$ <b>or</b> $y = x^2 - 2x - 2$ drawn <b>or</b> 1 correct value ft a quadratic graph	
			A1	ft a quadratic graph <b>or</b> for answers in the range 2.65 to 2.8 <b>and</b> -0.65 to -0.8	

Paper: 1MA1/3H					
Question	Answer	Mark	Mark scheme	Additional guidance	
3   <b>Q5</b>	(a)	2, -4, 2, 8	B2  (B1	all 4 values correct  for 2 or 3 correct values)	Accept freehand curves drawn that are not line segments; there must be some attempt to draw the minimum point below $y = -4$  Award for -2.6 or 1.6 or both values but do not award the mark if a correct value is given with an incorrect value. Accept 1.56 or -2.56 Note for ft to be applied if the graph may be joined by line segments
	(b)	Graph	M1  A1	(dep B1) for at least 5 points plotted correctly ft from part a  for a fully correct curve drawn	
	(c)	-2.6 or 1.6	B1	for 1 correct value, ft a non linear graph	

Paper: 1MA1/1H					
Question	Answer	Mark	Mark scheme	Additional guidance	
9	(a)	(9), -4, -5, 0, 5,	B2	for all 4 values correct	Accept a freehand curve drawn that is not made of line segments Ignore anything outside the required range
		(4), (-9)	(B1)	for 2 or 3 correct values)	
	(b)	Graph drawn	B2	for a fully correct graph	
			(B1)	ft (dep on B1 in (a)) for plotting at least 5 of the points from their table correctly)	
<b>Q6</b>					

Paper: 1MA1/1H						
Question	Answer	Mark	Mark scheme	Additional guidance		
6	(a)		5,(1),(-1),-1,1,5	B2	for all 4 values correct	
		(B1)		for 2 or 3 correct values)		
	(b)	Graph drawn	B2	for a fully correct graph		Accept a freehand curve drawn that is not made of line segments
			(B1)	ft (dep on B1 in (a)) for plotting at least 5 of the points from their table correctly)		Ignore anything drawn outside the required range
Q7	(c)	0.3 to 0.5 and 2.5 to 2.7	M1	for a correct method, eg marking intercepts with $x$ -axis <b>or</b> one correct solution <b>or</b> both solutions given as a coordinates, eg (0.4, 2.6) or (0.4, 0) <b>and</b> (2.6, 0)		ft their graph for this mark
			A1	for answers in the range 0.3 to 0.5 and 2.5 to 2.7 <b>or</b> ft their graph with at least 2 solutions		Accept these coordinates reversed