	(7, 30)	B1		
1	Additional Guidance			

Question	Answer	Mark	Comments	
	Correct graph (translated 90° to the right)	B1	mark intention	
2(a)	Additional Guidance			
. ,	Condone the graph starting at (90, 1)			
	Ignore the curve outside the domain (60		
Question	Answer Mark Comments			
	Correct graph (translated 1 up)	B1	mark intention	
2(b)	Additional Guidance			
	Ignore the curve outside the domain	60		

Question	Answer	Mark	Commer	nts
	Correct statement	B1	eg this is $y = -\cos x$ $\cos 0 = 1$ it's upside down it should be the same as	s cos x
	Add	ditional G	Guidance	
	It has been reflected in the <i>x</i> -axis instead of the <i>y</i> -axis			B1
	It should have been reflected in the <i>y</i> -axis			B1
	It starts at -1 (instead of 1)			B1
2(c)	180 is above the x-axis			B1
	Correct curve drawn			B1
	cos (-180) = -1			B1
	She has done –y instead of –x			B1
	It can't start as a negative			B1
	It should go down not up			B0
	She shouldn't have flipped it			B0
	Ignore non-contradictory statements alongside a correct statement			B1

Q	Answer	Mark	Comme	nt
3	Reflection of given graph in the x-axis	M1	mark intention	
	Correct shape of graph from ([-1.5, -1], -3) through (0, -1) through (1, 0) maximum at ([1.4, 1.6], [0.6, 0.8]) through (1.8, 0) to ([2, 2.5], -3)	A1 ditional G	Guidance	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\stackrel{\longrightarrow}{x}$		M1A1
	Feathering or double lines or a split li x-axis	ne, but in	tention to reflect in the	M1A0

Q	Answer	Mark	Comments	
	$y = -x^2$	B1	oe equation eg $x^2 = -y$	
	Additional Guidance			
4(a)	$y = -1x^2 + 0$			B1
	$y = -(x^2)$			B1
	-x ²			В0

Q	Answer	Mark	Comment		
	Reflection of given graph in the x-axis	B1	mark intention		
	Additional Guidance				
5(a)			X		

Q	Answer	Mark	Comme	nt
	Translation downwards of given graph which must go through (0, 0)	B1	mark intention, but must negative values of x and positive values of x draw line	be positive for
	Additional Guidance			
5(b)	(b) x			