## **Marking Guidelines**

Question	1 mark	2 marks	3 marks	Mark	
1(a)	One correct graph with correct	Two correct graphs with	Correct response provided		
	points of intersection	incorrect/no points of intersection		/3	
1(b)	One correct step only	Correct quadratic inequality with	Correct response provided		
		incorrect/no solution		/3	
2(a)	Correct response provided			/1	
2(b)	Hyperbola correctly graphed only	Two graphs correctly drawn with	Correct response provided		
		incorrect/no solution		/3	
2(c)	One error in working	Correct response provided			
				/2	
3	One correct case only	Two correct cases, or	Correct response provided		
		Three correct case with			
		incorrect/no solution		/3	
Inequalities Mark					
				/15	
4(a)	Two or three sections of the graph	Correct response provided			
(-7	drawn only			/2	
4(b)(i)	Correct graph with one important	Correct response provided			
	feature incorrect/missing			/2	
4(b)(ii)	Correct graph with one important	Correct response provided			
	feature incorrect/missing			/2	
4(c)(i)	Correct graph with one important	Correct response provided			
	feature incorrect/missing			/2	
4(c)(ii)	Correct graph with one important	Correct response provided			
	feature incorrect/missing			/2	
5(a)	Correct graph with one important	Correct response provided			
	feature incorrect/missing			/2	
5(b)	Graph basically correct with no	One important feature	Correct response provided		
	more than two features	incorrect/missing			
	incorrect/missing			/3	
5(c)	Graph basically correct with no	One important feature	Correct response provided		
	more than two features	incorrect/missing			
	incorrect/missing			/3	
Graphing Techniques Mark					
Graphing recliniques wark					

6(a)	One error completing the square	Correct response provided				
				/2		
6(b)	Correct range or domain	Correct response provided		/2		
6(c)	Correct response provided					
6(d)	One error in working	Correct response provided		/1		
6(e)	Correct range or domain	Correct response provided		/2		
6(f)	Graph of $f(x)$ or $f^{-1}(x)$ correct only	Two correct graphs with labels	Correct response provided	/3		
	Inverse Functions Mark					
7(a)	One incorrect feature	Correct response provided		/2		
7(b)	One incorrect feature	Correct response provided		/2		
7(c)	Clear explanation using appropriate mathematical terms			/1		
	Simple Pendulum Mark					
	Total					