Ques	tion	Scheme	Marks	AOs	
4(a	a)	Shape in quadrant 1 or 3	M1	1.1b	
		Shape and Position	A1	1.1b	
			(2)		
(b)		Deduces that $x < 0$	B1	2.2a	
		Attempts $\frac{16}{x} \dots 2 \Rightarrow x \dots \pm \frac{16}{2}$	M1	1.1b	
		$x < 0 \text{ or } x \dots 8$	A1 cso	2.2a	
			(3)		
	(5 marks)				
Notes:					
(a) M1: A1:	For the correct shape in quadrant 1 or 3. Do not be concerned about position but it must not cross either axis. Ignore incorrect asymptotes for this mark. Correct shape and position. There should be no curve in either quadrant 2 or quadrant 4. The curve must not clearly bend back on itself but condone slips of the pen.				
B1:	Deduces that $x < 0$ but condone $x_{,,} 0$ for this mark.				
M1:	Attempts $\frac{16}{x} 2 \Rightarrow x \pm \frac{16}{2}$ where the means any equality or inequality.				
A1:	$\cos x < 0$ or $x \dots 8$ (Both required)				
	Set notation may be seen $\{x: x < 0\} \cup \{x: x \dots 8\}$ o.e. $x \in (-\infty, 0) \cup [8, \infty)$				
	Accept $x < 0, x \dots 8$ but not $x < 0$ and $x \dots 8$				
	Must not be combined incorrectly, e.g., 8, $x < 0$ or $\{x : x < 0\} \cap \{x : x \dots 8\}$				