Question		n	Answer	Marks	AOs		Guidance
5	(a)	(i)	x = 0	B1	1.1		If answers given in both degrees and radians follow inst 2g
			$x = \pi$	B1	1.1	180 gets 0	
				[2]			
5	(a)	(ii)	$\left(\frac{\pi}{2}, 1\right)$	B1	2.2a	(90, 1) or (1.57, 1) get 0	
				[1]			
5	(b)		$1 - \csc 1 = -0.188 \text{ or 'negative'}$ 2 - cosec 2 = 0.900 or 'positive'	B1	1.1a	Both correct	OE E,g, may use $\csc x - x$
			Change of sign so root between 1 and 2	E1	2.4	Condone no mention of continuity AG	Dep on B mark
				[2]			
5	(c)	(i)	<b>BC</b> 1.18840, 1.07785	B1	1.1a	Both correct to at least 3dp.	
				[1]			
5	(c)	(ii)	<b>BC</b> 1.114	B1	2.2a		
				[1]			
5	(d)		No, it converges to 1.114	E1	1.1	OR same as <i>their</i> (c) (ii) or 'the root between 1 and 2' etc	Just 'No' gets 0 'Yes' with anything gets 0
				[1]			

