

Question			Answer	Marks	AO	Guidance	
2			DR				
			$(BC =) \frac{12}{3 - \sqrt{3}}$	B1	3.1a	Correct expression for BC	Can be implied by $6 + 2\sqrt{3}$
			$\frac{12}{3 - \sqrt{3}} \times \frac{3 + \sqrt{3}}{3 + \sqrt{3}} = \frac{36 + 12\sqrt{3}}{9 - 3}$	M1	1.1	Multiply numerator and denominator by $\pm(3 + \sqrt{3})$ to obtain a numerator with at least two terms and a denominator (not 0 or 1)	If correct, then $\frac{36 + 12\sqrt{3}}{6}$ or $6 + 2\sqrt{3}$
			$2(3 - \sqrt{3}) + 2(6 + 2\sqrt{3})$	M1	1.1	Correct method seen for finding perimeter with their AD/BC	Do not award if BC is never rationalised.
			$18 + 2\sqrt{3}$	A1	1.1	$a = 18$ and $b = 2$	
				[4]			