

Question		Answer	Marks	AO	Guidance
14	(a)	$0.2 \times \{0.96154 + 0.86207 + 0.73529 + 0.60976 + 0.5\}$ soi	M1	2.1	allow M1A1 for calculation of exact values using formula in parts (a) and (b)
		$0.73373... \approx 0.7337$ AG	A1	2.4	need to see 0.73373... as well as 0.7337 for A1
			[2]		
14	(b)	$0.2 \times \{1 + 0.96154 + 0.86207 + 0.73529 + 0.60976\}$	M1	1.1	or $(3.66866 - 0.5 + 1) \times 0.2$
		0.8337 correct to 4 dp	A1	1.1	
			[2]		
14	(c)	0.1	B1	1.1	FT their $0.8337(32) - 0.7337(32)$, dependent on award of M1 in part (b)
			[1]		
14	(d)	$0.79162 - 0.77912$	M1	3.1a	if M0 allow SC1 for correct interval identified eg 0.77912 to 0.79162
		0.0125	A1	2.4	
			[2]		
14	(e)	increase n oe use rectangles of smaller width oe	B1	2.2a	do not allow eg reduce interval eg just ‘smaller’ rectangles – need to specify width reduction
			[1]		