

Q	Marking instructions	AO	Marks	Typical solution
7	Recalls that correct step is to multiply top and bottom by $2 - \sqrt{n}$ PI by subsequent work	1.2	M1	$\frac{3 - \sqrt{n}}{2 + \sqrt{n}} \times \frac{2 - \sqrt{n}}{2 - \sqrt{n}}$
	Multiplies numerator and denominator by $(2 - \sqrt{n})$ to get correct terms (condone sign errors) Does not need to be simplified PI by correct simplification	1.1a	M1	$\frac{6 - 3\sqrt{n} - 2\sqrt{n} + n}{4 + 2\sqrt{n} - 2\sqrt{n} - n}$
	Obtains correct simplified numerator and denominator not necessarily in a fraction	1.1b	A1	$\frac{6 + n - 5\sqrt{n}}{4 - n}$
	States correct expressions for a and b Or gives expression with a and b correctly identified	1.1b	A1	$a = \frac{6 + n}{4 - n}$ $b = \frac{-5}{4 - n}$
Question 7 Total			4	