

4	Multiplies numerator and denominator by the conjugate surd of the denominator	AO1.1a	M1	$\frac{(5\sqrt{2} + 2)(3\sqrt{2} - 4)}{(3\sqrt{2} + 4)(3\sqrt{2} - 4)}$
	Obtains either numerator or denominator correctly, in expanded or simplified form	AO1.1b	A1	$= \frac{30 - 20\sqrt{2} + 6\sqrt{2} - 8}{2}$
	Constructs rigorous mathematical argument to show the required result Only award if they have a completely correct solution, which is clear, easy to follow and contains no slips NMS = 0	AO2.1	R1	$= 11 - 7\sqrt{2}$
Total			3	