

2		$\frac{(a + \sqrt{2})(3 + \sqrt{2})}{(3 - \sqrt{2})(3 + \sqrt{2})}$ $= \frac{3a + a\sqrt{2} + 3\sqrt{2} + 2}{9 - 2}$ $= \frac{3a + 2}{7} + \frac{a + 3}{7}\sqrt{2}$	<p>M1</p> <p>M1</p> <p>A1 [3]</p>	<p>1.1a</p> <p>1.1a</p> <p>1.1</p>	<p>Attempt to rationalize the denominator</p> <p>Attempt to expand the brackets</p> <p>must be in the form $p + q\sqrt{2}$ Mark final answer</p>	<p>Allow for instead stating $p = \frac{3a + 2}{7}, q = \frac{a + 3}{7}$</p>
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