Question	Answer	Mark	Mark scheme	Additional guidance
16 (a)	$3\sqrt{5}$	M1	for $\dfrac{15}{\sqrt{5}} \times \dfrac{\sqrt{5}}{\sqrt{5}}$ or $\dfrac{15}{\sqrt{5}} \times \dfrac{-\sqrt{5}}{-\sqrt{5}}$	
		A1	for $3\sqrt{5}$ or $\sqrt{45}$	
(b)	$\dfrac{32 - 9\sqrt{3}}{11}$	M1	(indep) for writing $\sqrt{75}$ as $5\sqrt{3}$	This mark can be awarded whenever this is seen, which might be later in the process.
		M1	for method to rationalise the denominator, eg $\dfrac{\sqrt{75} - 2}{1 + 2\sqrt{3}} \times \dfrac{1 - 2\sqrt{3}}{1 - 2\sqrt{3}}$ **or** $\dfrac{5\sqrt{3} - 2}{1 + 2\sqrt{3}} \times \dfrac{1 - 2\sqrt{3}}{1 - 2\sqrt{3}}$	
		M1	(dep on previous M1) for expanding terms, condone one error in numerator or denominator eg $\dfrac{\sqrt{75} - 2\sqrt{75}\sqrt{3} - 2 + 4\sqrt{3}}{1 - 2\sqrt{3} + 2\sqrt{3} - 4\sqrt{3}\sqrt{3}}$ **or** $\dfrac{5\sqrt{3} - 10\sqrt{3}\sqrt{3} - 2 + 4\sqrt{3}}{1 - 2\sqrt{3} + 2\sqrt{3} - 4\sqrt{3}\sqrt{3}}$	
		A1	for $\dfrac{32 - 9\sqrt{3}}{11}$ oe eg $\dfrac{-32 + 9\sqrt{3}}{-11}$	Accept $a = 32$, $b = 9$, $c = 11$