

Q	Marking Instructions	AO	Marks	Typical Solution
3	Substitutes $\sin\theta$ value into the equation $\sin^2\theta + \cos^2\theta = 1$ ACF or Uses $\sin\theta = -0.1$ and right-angled triangle to get magnitude of $\cos\theta$ or Obtains $\cos^2\theta = 0.99$ CAO	1.1a	M1	$\sin^2\theta + \cos^2\theta = 1$ $0.01 + \cos^2\theta = 1$ $\cos^2\theta = 0.99$
	Solves and selects correct sign Accept $\cos\theta = -\sqrt{0.99}$ or exact equivalent $-\frac{3}{10}\sqrt{11}$ ISW if exact answer seen and then evaluated NB Any full numerical approach scores M0A0	1.1b	A1	$\cos\theta = -\frac{3}{10}\sqrt{11}$
	Total		2	