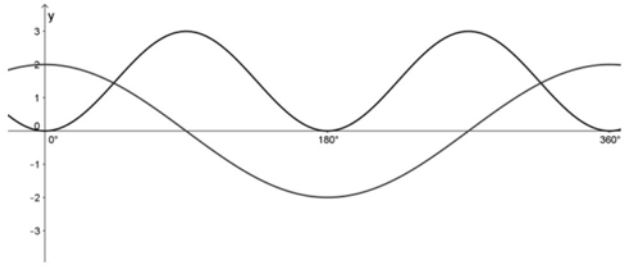
Question			Answer	Marks	AOs	Guidance	
6	(a)			B1 B1 [2]	1.1a 1.1	Correct shape and symmetry for cosine graph. Correct maximum and minimum values	
6	(b)		**DR** $2\cos\theta = 3\sin^2\theta$ $2\cos\theta = 3(1-\cos^2\theta)$ $3\cos^2\theta + 2\cos\theta - 3 = 0$ $\cos\theta = \frac{-1}{3} + \frac{\sqrt{10}}{3}$ $\theta = 43.9°,\ 316.1°$ $\cos\theta = \frac{-1}{3} - \frac{\sqrt{10}}{3} < -1$ gives no solution	B1 M1 M1 A1 A1 E1 [6]	1.2 3.1a 1.1 1.1 1.1 2.4	Correct use of identity **must be seen** Rearranging to zero **must** be seen, condone one error Solve quadratic Or state that graph in part (i) only shows two solutions	