

$$g(A) = 2 + 3\cos A - \sin A - 3\sin 2A - 2\cos^2 A$$

Given that g(A) can be written in the form $(p\cos A - \sin A)(q - r\sin A)$ where p, q and r are integers,

(b) find the value of p, the value of q and the value of r.

(3)

(1)

(c) Hence solve, in radians to 3 significant figures where appropriate, the equation

$$g(2\theta) = 0$$
 for $0 \leqslant \theta < \pi$

(6)

DO NOT WRITE IN THIS AREA

Question 8 continued		



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Question 8 continued	

