

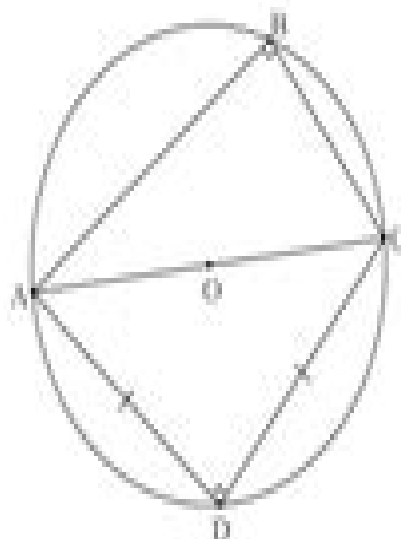
Section B

Answer all questions in the answer booklet provided. Please start each question on a new page.

9. (Maximum mark: 14)

(a) Given that $\cos 75^\circ = q$, show that $\cos 105^\circ = -q$. [1]

In the following diagram, the points A, B, C and D are on the circumference of a circle with centre O and radius r . [AC] is a diameter of the circle. $BC = r$, $AD = CD$ and $\angle ABC = \angle ADC = 90^\circ$.



(b) Show that $\angle BAD = 75^\circ$. [3]

(c) (i) By considering triangle ABD, show that $BD^2 = 5r^2 - 2r^2q\sqrt{6}$.

(ii) By considering triangle CBD, find another expression for BD^2 in terms of r and q . [7]

(d) Use your answers to part (c) to show that $\cos 75^\circ = \frac{1}{\sqrt{6} + \sqrt{2}}$. [3]

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JL Elias

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