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MATHEMATICS

9709/13

Paper 1 Pure Mathematics 1

October/November 2022

1 hour 50 minutes

- 1** Solve the equation $8 \sin^2 \theta + 6 \cos \theta + 1 = 0$ for $0^\circ < \theta < 180^\circ$.

The image shows a handwritten solution on lined paper and a calculator display. The handwritten work starts with an arrow pointing to the equation $4 \cos \theta + 3 = 0$, which is derived from the original equation. This is rearranged to $\cos \theta = -\frac{3}{4}$. An arrow then points to the solution $\theta = \cos^{-1}\left(-\frac{3}{4}\right)$, which is calculated as $\theta = 41.41^\circ$. A green checkmark and the word 'quadrant' are written next to the final answer. To the right, a Classwiz calculator displays the calculation $\cos^{-1}(3 \div 4)$ and the result 41.40962 .

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Michael Brown



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