

Cambridge International AS & A Level

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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 $0^\circ < \theta < 180^\circ$.

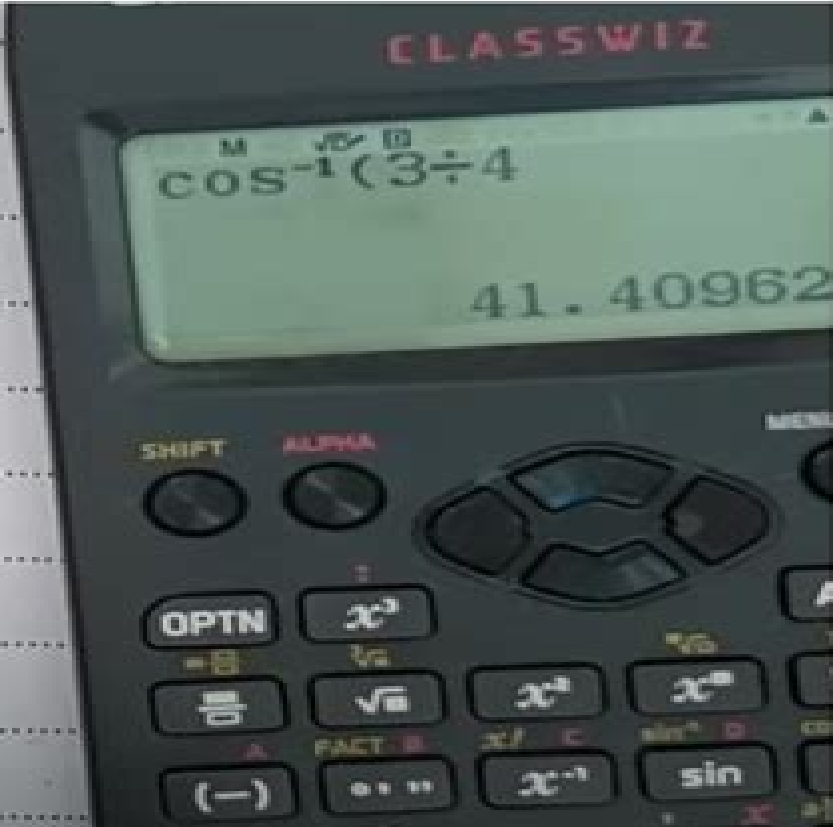
$\Rightarrow$

$$4 \cos \theta + 3 = 0$$
$$\cos \theta = -\frac{3}{4}$$

$\Rightarrow$

$$\theta = \cos^{-1}\left(\frac{-3}{4}\right)$$
$$\theta = 41.41^\circ$$

2nd quad x only



CLASSWIZ

$\cos^{-1}(-3 \div 4)$

41.40962

Nov 13 Paper 33 A Level Maths

David Kirk



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