

Solving Trigonometric Equations

Revise this topic →



← Check your work

This booklet features original exam style questions designed by me. They do not feature in past papers but are good practice for your exams.

The content is designed to reflect the style of the **AQA Level 2 Certificate in Further Maths**.
It may not be suitable for other courses.



Answer **all** questions in the spaces provided.

1 Solve $\cos x = 0.5$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]



Answer _____

2 Solve $\sin x = \frac{\sqrt{3}}{2}$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]



Answer _____

3 Solve $\tan x = 1$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]



Answer _____





Do not write
outside the
box

From here on give all answers to 1 decimal place

4 Solve $\cos x = 0.25$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____

5 Solve $\sin x = 0.9$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____

6 Solve $\tan x = 2.2$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____

12

Turn over ►





Do not write
outside the
box

7 Solve $\cos x = -0.3$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____

8 Solve $\sin x = -0.17$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____

9 Solve $\tan x = -0.4$ for $0^\circ \leq x \leq 360^\circ$ [2 marks]

Answer _____





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outside the
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10 Solve $3\cos x = 1$ for $0^\circ \leq x \leq 360^\circ$ [3 marks]

Answer _____

11 Solve $4\tan x = 5$ for $0^\circ \leq x \leq 360^\circ$ [3 marks]

Answer _____

12 Solve $3 - \sin x = 3.2$ for $0^\circ \leq x \leq 360^\circ$ [3 marks]

Answer _____

15

Turn over ►





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outside the
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13 Solve $\cos^2 x = 0.09$ for $0^\circ \leq x \leq 360^\circ$

[4 marks]

Answer _____

14 Solve $3\tan^2 x = 12$ for $0^\circ \leq x \leq 360^\circ$

[4 marks]

Answer _____

