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JC MATHEMATICS (H2) STUDY TIPS

HOW TO USE GC TO QUICKLY
FIND THE VALUE OF THE SECOND
DERIVATIVE

PREPARED BY
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JC_H2Maths_003





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Explanation

An invaluable technique in calculus optimization involves using a graphing calculator to replace manual calculations by finding the second derivative value automatically. Rather than deriving a secondary formula by hand, an insightful shortcut eliminates the manual calculus workload.

The defining secret to this efficiency lies in inserting the expression of the first derivative directly into the nDeriv function. By inputting the expression of the first derivative alongside the required x -value, the calculator instantly processes the command to determine the value of the second derivative at that point.

Utilizing this automated feature saves time significantly and ensures high reliability during complex evaluations.

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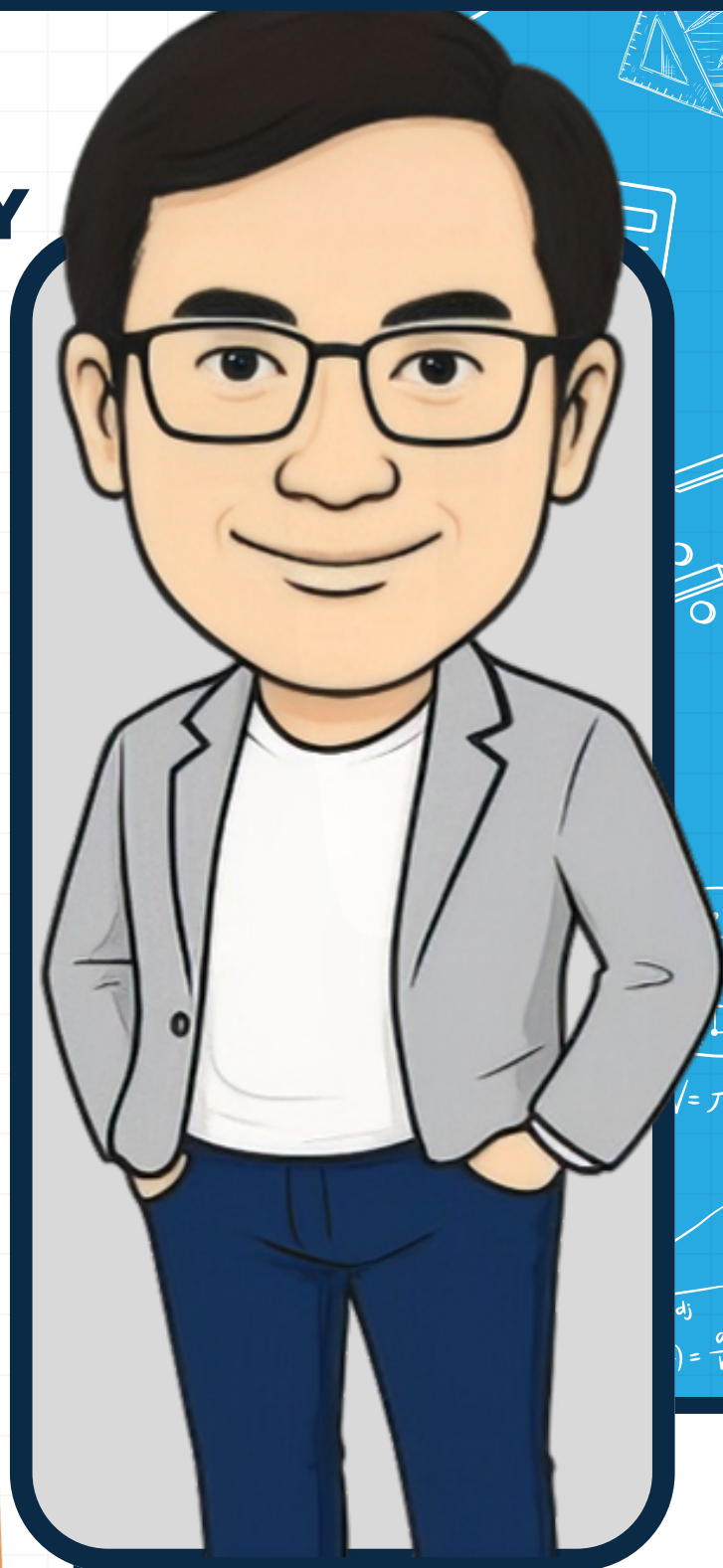
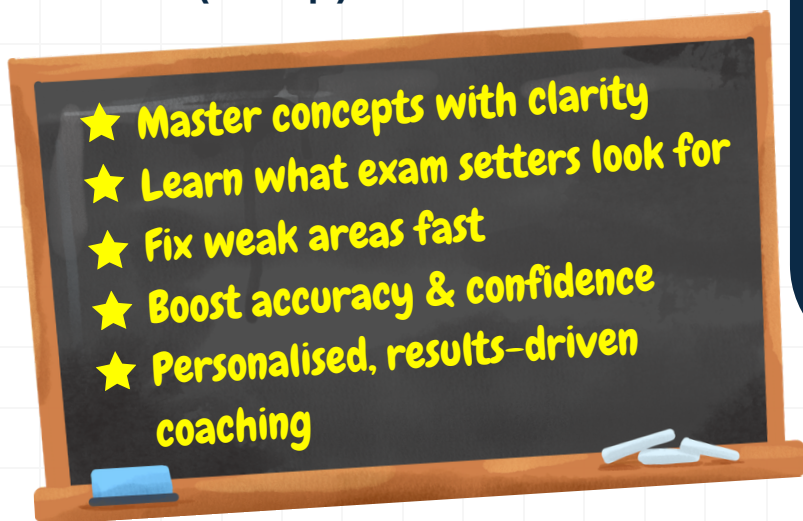
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- ✓ Former MOE Scholar
- ✓ Winner of International Mathematics Competitions
- ✓ PGDE Qualification (NIE) with **Distinction in Mathematics**
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