

Volume of revolution –Part 1

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Select RUN mode from the main menu by using the arrow keys to highlight the RUN icon or pressing 1.



Volume of revolution $V = \int_a^b \pi [f(x)]^2 dx$, where a and b are the lower and upper bound respectively.

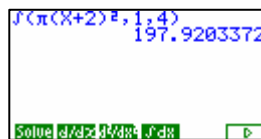
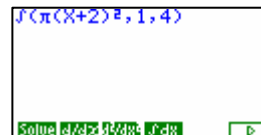
N.B. To get the integration sign \int Press **OPTN** then F4 for **CALC** then F4 for the \int sign.



Example: Find the volume generated by revolving the line $y = x + 2$ about the x axis between $x = 1$ and $x = 4$.

Enter into the calculator

$\int \pi (x+2)^2, 1, 4$ then press **EXE**



The volume is 197.92 (2d.p.) units³