Volume of revolution –Part 1

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

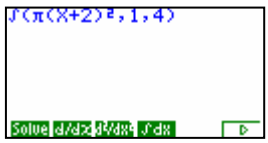
Volume of revolution $V = \int [f(x)]^2 \, dx$, **where a and b are the lower and upper bound respectively.**

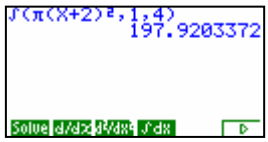
N.B. **To get the integration sign** $\int$ **Press** OPTN **then F4 for** CALC **then F4 for the** $\int$ **sign.**

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.) units^3