Problem statement Evaluate the iterated integral $\int_0^2 \int_{-x}^x (2+x) \, dy \, dx$ in three ways:

- a) Directly.
- b) By reversing the order of integration (that is, converting to a double integral and then expressing the double integral as one or a sum of iterated integrals in dx dy order) and finally, computing the result.
- c) Changing to an integral in polar coordinates and computing the result.