

[2.5] Try manual simplification to improve symbolic integration

The CAS may fail to integrate for some expressions, but can succeed if the integrand is expressed differently. For example, the CAS cannot find a solution to this integral:

$$\int(\sqrt{1/(r^2-x^2)}), x)$$

but the correct result is quickly returned for this version:

$$\int(1/\sqrt{r^2-x^2}), x)$$

(Credit to Bhuvanesh Bhatt)