$$A = \int_a^b f(x) \, \mathrm{d}x + \sum_i^N x_i$$

 $A=\int_a^bf(x)\,\mathrm{d}x+\sum_i^Nx_i$ This is an inline integral: $\int_a^b,$ and an inline sum: $\sum_i^Nx_i.$