One identity

Sasha says that

$$\int e^{\frac{i}{\hbar} g^{ij} \partial_i \partial_j} P(x) \sim \int e^{\frac{i}{\hbar} g_{ij} x^i x^j} P(x) dx$$

$$\int e^{-\frac{N}{2} x^2} x^{2k} dx$$