$$= \int_{-\infty}^{+\infty} \exp\left(-\frac{x^2}{2a^2} + bx - \frac{a^2b^2}{2}\right) - \exp\left(\frac{a^2b^2}{2}\right) dx =$$

$$= \int_{-\infty}^{+\infty} \exp\left[-\left(\frac{x}{\sqrt{2}\alpha} - \frac{ab}{\sqrt{2}}\right)^{2}\right] \cdot \exp\left(\frac{a^{2}b^{2}}{2}\right) dx =$$

$$= \int \exp\left[-\frac{1}{z}\left(\frac{x}{a} - ab\right)^{2}\right] \exp\left(\frac{a^{2}b^{2}}{z}\right) dx =$$

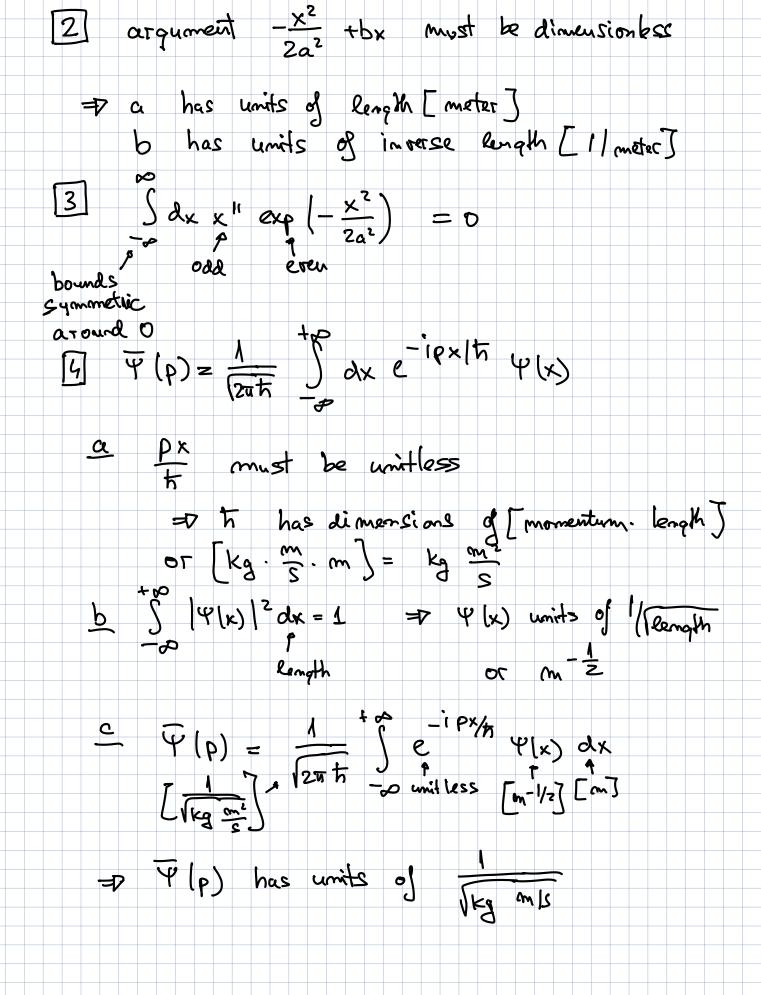
$$= \exp\left(\frac{a^2b^2}{2}\right) \cdot a \cdot \sqrt{2} \cdot \int \exp\left[-u\right] du \qquad du = \frac{1}{2} \cdot \frac{1}{a} dx$$

$$du = \frac{1}{2} \cdot \frac{1}{a} dx$$

$$dx = a\sqrt{2} \cdot du$$

$$=\sqrt{2u} \quad a \quad \exp\left(\frac{a^2b^2}{2}\right)$$

$$= \sqrt{u} \cdot 1 = \frac{de^{-r^2} - r^2}{dr} = -e^{-r^2} \cdot 2r$$



$$\frac{\partial}{\partial x} y(x) = A \cdot e^{Mx}$$

$$\frac{\partial}{\partial x} y(x) = A \cdot e^{Mx}$$