$x^{2}+4x = x^{2}+4x+4-4 = e^{4} \int_{-\infty}^{\infty} e^{-(x+2)^{2}} dx = e^{4} \int_{-\infty}^{\infty} e^{-(x+2)^{2}} dx$

$$\int_{0}^{h_{1}} \frac{dx}{dx} dx = \int_{0}^{h_{1}} \frac{dx}{dx} \int_{0}^{h_{1}} \frac{dx}{dx}$$

 $\phi(x,0) = \frac{1}{\sqrt{a\sqrt{\pi}}} \exp\left(-\frac{x^2}{2a^2} + ik_0x\right).$

$$\phi(k,0) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} \phi(x,0) e^{ikx} dk \!\!\!\!/ \!\!\!/ \!\!\!\!/ =$$

$$= \frac{1}{\sqrt{2\pi}} \cdot \frac{1}{\sqrt{a\sqrt{11}}} \cdot \int_{-\infty}^{\infty} e^{-\frac{x^{2}}{2a^{3}} + i(k_{0}x + i(k)x)} dx = \frac{1}{2a} \cdot \frac{1}{\sqrt{a\sqrt{11}}} \cdot \frac{1}{\sqrt{a\sqrt{11}}} \cdot \int_{-\infty}^{\infty} e^{-\frac{x^{2}}{2a^{3}} + i(k_{0}x + i(k)x)} dx = \frac{1}{2a} \cdot \frac{1}{\sqrt{a\sqrt{11}}} \cdot$$