$$\int \frac{x^{2}}{f} e^{x} dx = \frac{x^{2}}{f} \cdot e^{x} - \int 2x \cdot e^{x} dx$$

$$\int x^{2} e^{x} dx = x^{2} e^{x} - \int 2x e^{x} dx$$

$$= x^{2} e^{x} - 2 \int x e^{x} dx$$

$$= x^{2} e^{x} - 2 \left(x e^{x} - e^{x} \right)$$

 $= \chi^2 e^{x} - 2 \chi e^{x} + 2 e^{x}$

= (x2-2x+1) ex