Estel 1 Marc Haus, Franka Weronek, Angalo Brade 13.60.7024 $\int dx e^{-ax^2} = \sqrt{\frac{\pi}{a}}$ (i) $u = \frac{x}{\sqrt{a}} - \frac{3}{\sqrt{2a^{2}}} = \lambda du = \frac{1}{\sqrt{a}} dx$ $2(3) = \int_{e^{-ax^{2}+\sqrt{3}x}} dx = \int_{e$ $\frac{\partial^{2}(\zeta)}{\partial \zeta^{n}}\Big|_{z=0}^{z}\frac{\partial^{n}}{\partial \zeta^{n}}e^{\frac{\zeta^{n}}{2}\sqrt{\alpha}\pi^{n}}\Big|_{\zeta=0}^{z}$ $\frac{\partial \dot{z}(\dot{z})}{\partial \dot{z}} = \sqrt{a\pi} \left(\frac{3}{a} e^{\frac{3}{2a}} \right) |_{z=0}$ $\frac{\partial^{2} z(y)}{\partial y^{2}} = \sqrt{a} \pi^{1} exp(J^{2}/2a) \left(\frac{J^{2}}{a} + \frac{1}{a}\right) \Big|_{y=0}$ $\frac{\partial^{3} z(y)}{\partial y^{2}} = \sqrt{a} \pi^{1} exp(J^{2}/2a) \left(\frac{J^{2}}{a} + \frac{J}{a} + 2\frac{J}{a}\right) \Big|_{y=0}$ = 14 *=* 0 $\frac{\partial z(7)}{\partial J^{4}} = \sqrt{a} = \exp\left(\frac{J^{2}/2a}{a^{2}}\right) \left(\frac{J^{4}}{a^{2}} + \frac{J^{2}}{a^{3}} + 2\frac{J}{a} + \frac{J}{a} + \frac{1}{a} + \frac{2}{a}\right) \left(\frac{J^{2}}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a} + \frac{2}{a}\right) \left(\frac{J}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a} + \frac{2}{a}\right) \left(\frac{J}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a} + \frac{2}{a}\right) \left(\frac{J}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a} + \frac{2}{a}\right) \left(\frac{J}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a^{3}} + \frac{2}{a}\right) \left(\frac{J}{a^{2}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + 2\frac{J}{a} + \frac{1}{a^{3}} + \frac{2}{a}\right) \left(\frac{J}{a^{3}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + 2\frac{J}{a^{3}} + \frac{1}{a^{3}} + \frac{2}{a}\right) \left(\frac{J}{a^{3}} + \frac{J}{a^{3}} + 2\frac{J}{a^{3}} + \frac{J}{a^{3}} + \frac{$ $= \sqrt{a} \, a \, \left(\frac{1}{a} + \frac{2}{a} \right)$ $(\Delta_x)^2 = \int_{\mathbb{R}} e^{-ax^2} x^2 dx - 0 = \int_{\partial a} \left(-e^{-ax^2} \right) dx = -\frac{\partial}{\partial a} \sqrt{\frac{a}{a}} = \frac{1}{2} \left(\frac{1}{a} \right)^{\frac{3}{2}}$

$$(X^{\mu})^{\circ} \int_{\mathbb{R}^{n-\alpha}} e^{-\alpha x} dx = \int_{\mathbb{R}^{n}} \frac{\partial^{2}}{\partial x^{2}} e^{-\alpha x} dx = \frac{\partial^{2}}{\partial x^{2}} \sqrt{\frac{x^{2}}{a}} \cdot \frac{\partial^{3}}{\partial x^{2}} \frac{1}{2} \left(\frac{x}{a}\right)^{\frac{n}{2}} \cdot -\frac{1}{4} \left(\frac{x}{a}\right)^{\frac{n}{2}}$$

$$() \quad \Gamma(x) \cdot \int_{X^{n-1}} e^{-x} dx = \int_{X^{n}} x \cdot e^{-x} dx = \int_{X^{n}} x \cdot e^{-x} dx = \int_{\mathbb{R}^{n}} x \cdot e^{-x} dx = \int_{\mathbb{R}^{n}}$$

