



 $= \exp\left(\overline{x}a + \frac{1}{2}\sigma^{2}a^{2}\right) \int \exp\left(-\left(u - \frac{\sigma a}{\sqrt{2}}\right)du$ copied from the prev page TT $= \exp\left(\overline{x}a + \frac{1}{2}\sigma^{2}a^{2}\right) \int \exp\left(-v^{2}\right) du$ $\sqrt{\pi}$ substitute V = II - GAV = 72 $= \exp\left(\overline{x}a + \frac{1}{2}\sigma^2a^2\right)\sqrt{\pi}$ $\sqrt{\kappa}$ $= \exp\left(\bar{x}a + \frac{1}{2}\sigma^{2}a^{2}\right)$