Financial Maths

Integration

$$\int_{\mathbb{R}} e^{-x^2}\,dx = \sqrt{\pi}$$

Let $I = \int_{\mathbb{R}} e^{-x^2}\,dx$, then $I^2 = \int_{\mathbb{R}} e^{-x^2}\,dx \int_{\mathbb{R}} e^{-y^2}\,dy = \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} e^{-(x^2+y^2)}\,dx\,dy$

We then convert into polar coordinates: $x = r\cos(\theta)$, $y = r\sin(\theta)$, $dx\,dy = r\,dr\,d\theta$

$$I^2 = \int_{0}^{2\pi}\int_{0}^{\infty} e^{-r^2} r\,dr\,d\theta = \frac{1}{2}\int_{0}^{2\pi} d\theta = \pi$$
$$\Rightarrow I = \sqrt{\pi}$$

$$\int_{0}^{\infty} e^{-x^2}\,dx = \frac{\sqrt{\pi}}{2}$$

$$\int_{-\infty}^{\infty} e^{-a x^2}\,dx$$

Let $s = \sqrt{a}\,x$ so $ds = \sqrt{a}\,dx$

Hence $\frac{1}{\sqrt{a}}\int_{-\infty}^{\infty} e^{-s^2}\,ds = \sqrt{\frac{\pi}{a}}$

Error Function

$\operatorname{erf}(x) = \frac{2}{\sqrt{\pi}}\int_{0}^{x} e^{-t^2}\,dt$ is the error function

$\operatorname{erfc}(x) = \frac{2}{\sqrt{\pi}}\int_{x}^{\infty} e^{-t^2}\,dt$ is the complementary error function

$$\operatorname{erf}(x) + \operatorname{erfc}(x) = \frac{2}{\sqrt{\pi}}\left(\int_{0}^{x} + \int_{x}^{\infty}\right) = \frac{2}{\sqrt{\pi}}\int_{0}^{\infty} e^{-x^2}\,dx = 1$$

$$\int_{x_0}^{x_1} e^{-x^2}\,dx = \int_{x_0}^{0} + \int_{0}^{x_1} = \int_{0}^{x_1} - \int_{0}^{x_0} = \frac{\sqrt{\pi}}{2}\left(\frac{2}{\sqrt{\pi}}\int_{0}^{x_1} - \frac{2}{\sqrt{\pi}}\int_{0}^{x_0}\right) = \frac{\sqrt{\pi}}{2}\left(\operatorname{erf}(x_1) - \operatorname{erf}(x_0)\right)$$

Taylor Series Expansion (TSE)

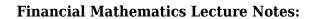We consider the function $f(x)$ and what happens when we consider $f(x+\delta x)$

$$f(x+\delta x) = f(x) + f'(x)\delta x + \frac{1}{2!}f''(x)\delta x^2 + O(\delta x^3)$$

For a general power series $f(x) = \sum_{n=0}^{\infty} a_n(x)(x - x_0)^n$

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Karin Nielsen-Saines

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