Formulae and constants

Mathematical constants
$\sqrt{2} = 1.414...$
$\sqrt{3} = 1.732...$
$\sqrt{5} = 2.236...$
Eulers constant: $e = 2.718...$
Golden ratio: $\varphi_g = 1.618...$
Pi: $\pi = 3.141...$

Values of Euler's Gamma function $\Gamma(x)$
(The Gamma function is not the Gamma distribution.)
$\Gamma(1) = \Gamma(2) = 1$
$\Gamma(3) = 2$
$\Gamma(\pi) = 2.288...$
$\Gamma(1.5) = \sqrt{\pi}/2$
$\Gamma(2.5) = \frac{3}{4}\sqrt{\pi}$

Integrals related to Gaussians

$$\int_{-\infty}^{+\infty} e^{-a(x+b)^2} \mathrm{d}x = \sqrt{\frac{\pi}{a}} \tag{0.1}$$

$$\int e^{-ax^2} \mathrm{d}x = \sqrt{\frac{\pi}{4a}} \mathrm{erf}(\sqrt{a}x) \tag{0.2}$$