

Provided Formula

$$\text{ErlangB}(m, A) = \frac{A^m}{m! \sum_{k=0}^{m-1} \frac{A^k}{k!}}$$

$$2 \cos^2 x = 1 + \cos(2x)$$

$$2 \sin^2 x = 1 - \cos(2x)$$

$$G(f) = \int_{-\infty}^{\infty} g(t) e^{-j2\pi ft} dt$$

$$\cos(2\pi f_c t + \theta) \xleftrightarrow{\mathcal{F}} \frac{1}{2} \delta(f - f_c) e^{j\theta} + \frac{1}{2} \delta(f + f_c) e^{-j\theta}$$

$$g(t - t_0) \xleftrightarrow{\mathcal{F}} e^{-j2\pi f t_0} G(f)$$

$$e^{j2\pi f_0 t} g(t) \xleftrightarrow{\mathcal{F}} G(f - f_0)$$

$$m(t) \cos(2\pi f_c t) \xleftrightarrow{\mathcal{F}} \frac{1}{2} M(f - f_c) + \frac{1}{2} M(f + f_c)$$