Transformada de Laplace.

Trigonométricas.

$$sen(a+b) = sen(a)cos(b) + cos(a)sen(b)$$

$$sen(x) = \frac{e^{ix} - e^{-ix}}{2i}$$

$$cos(a+b) = cos(a)cos(b) - sen(a)sen(b)$$

$$cos(x) = \frac{e^{ix} + e^{-ix}}{2}$$

$$sen(a)sen(b) = \frac{1}{2}[cos(a-b) - cos(a+b)]$$

$$e^{ix} = cos(x) + i sen(x)$$

$$cos(a)cos(b) = \frac{1}{2}[cos(a-b) + cos(a+b)]$$

$$sen^{2}(a) = \frac{1}{2}[1 - cos(2a)]$$

$$sen(a)cos(b) = \frac{1}{2}[sen(a-b) + sen(a+b)]$$

$$cos^{2}(a) = \frac{1}{2}[1 + cos(2a)]$$

$$cos(-a) = cos(a)$$

$$sen^{2}(a) + cos^{2}(a) = 1$$