Laplace transform of different functions and integral

Step function

The step function is defined by

$$\begin{bmatrix} t \end{bmatrix} = 0, \quad 0 \le t < 1$$

$$= 1, \quad 1 \le t < 2$$

$$= 2, \quad 2 \le t < 3$$

$$= 3, \quad 3 \le t < 4$$

$$\begin{bmatrix} 1 + \frac{t}{h} \end{bmatrix}$$

$$\begin{bmatrix} 1 + \frac{t}{h} \end{bmatrix}$$
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Preview for 0 age 1 to 12

This function sometimes called a Staircase function with unit rise and run.

The Staircase function with an arbitrary positive run h and with a unit rise belonging at the origin t = 0, is then represented by

the symbol
$$\left[1+\frac{t}{h}\right]$$
 or $1+\left[\frac{t}{h}\right]$. The function $C\left[1+\frac{t}{h}\right]$

has the rise C and run h.

Laplace transform of Cosine integral

