

S \* t = u

Diff. with respect to u

S dt/du = du/du

S dt/du = 1

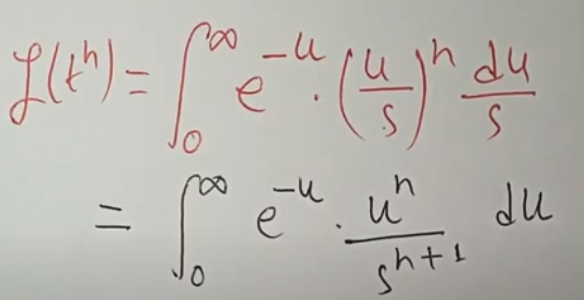
where,

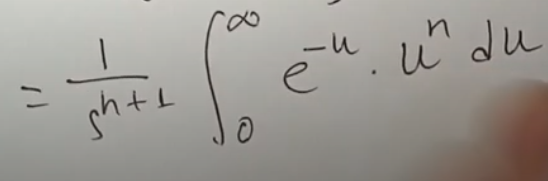
t=0 then u=0

t=∞ then u=∞

then,

t= u/s





The gamma function is:

ᴦ(n) =



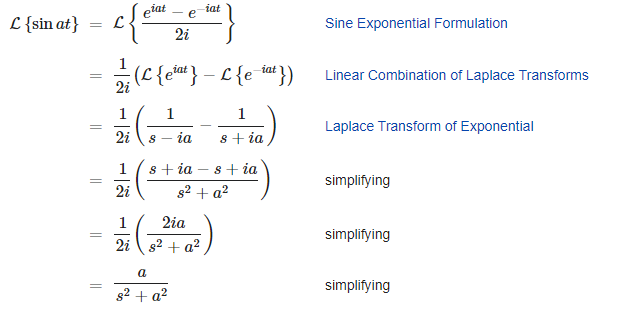
= n

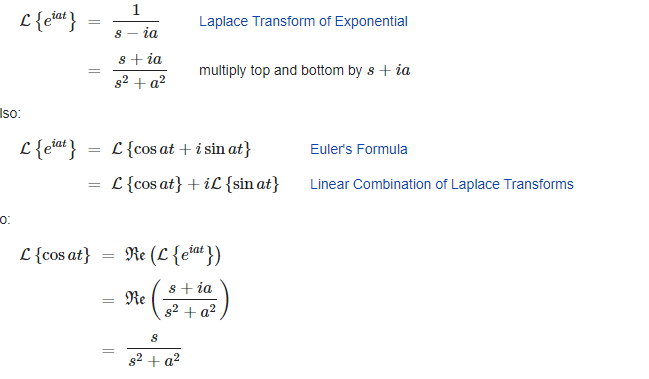
Which is similar to?

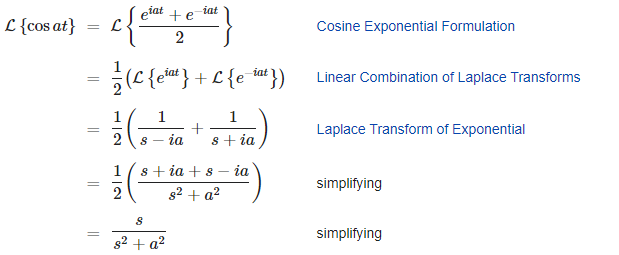
**=**

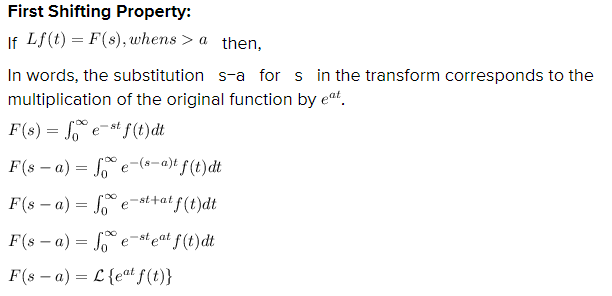
Then,

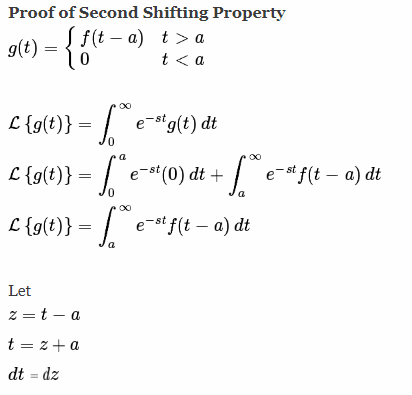
L(tn) =

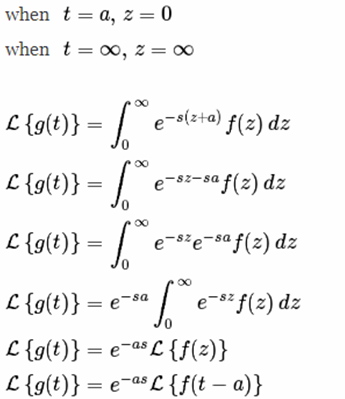




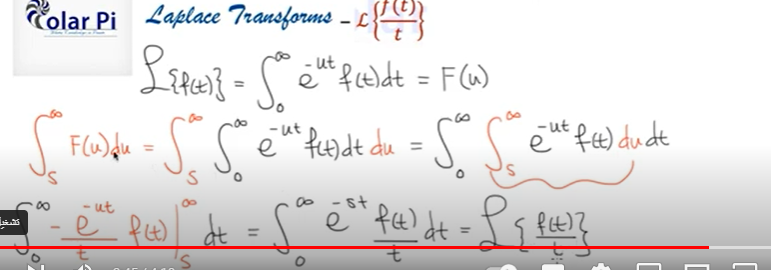


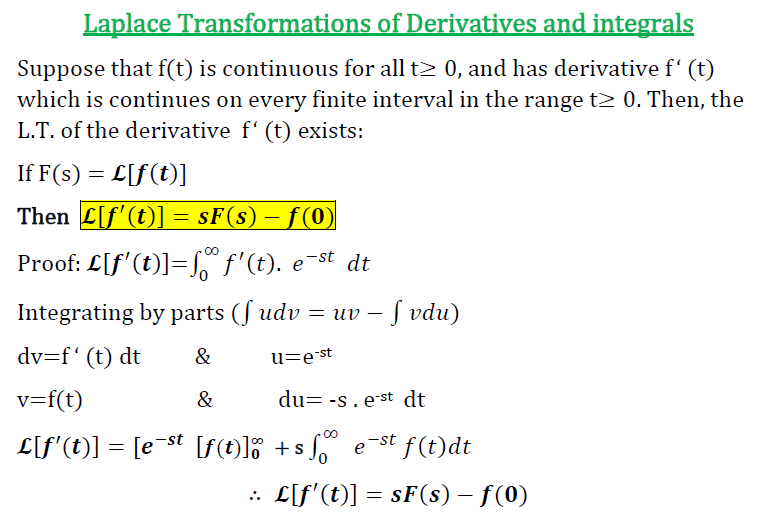


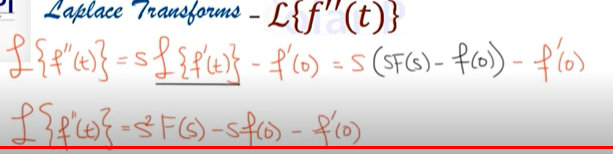


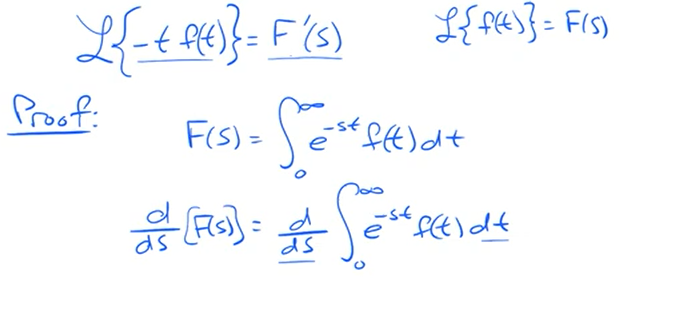


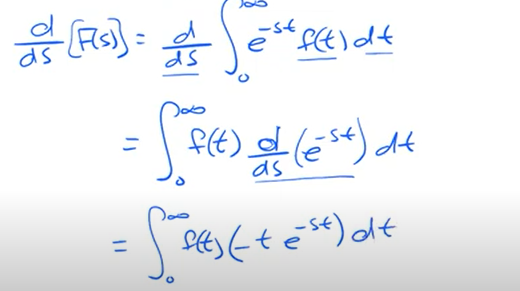
**Then Laplace of g(t) = e-as F(s)**

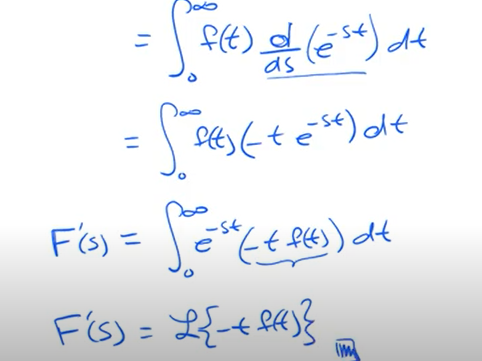




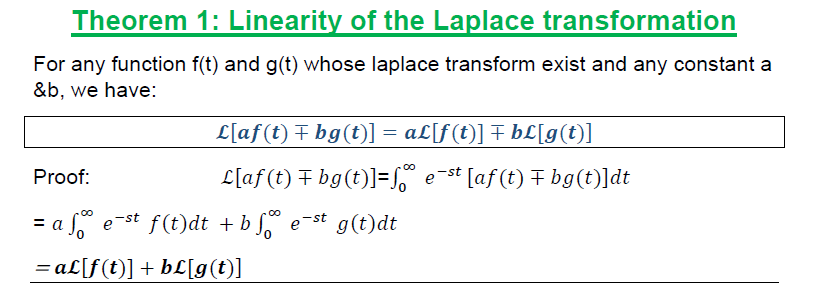


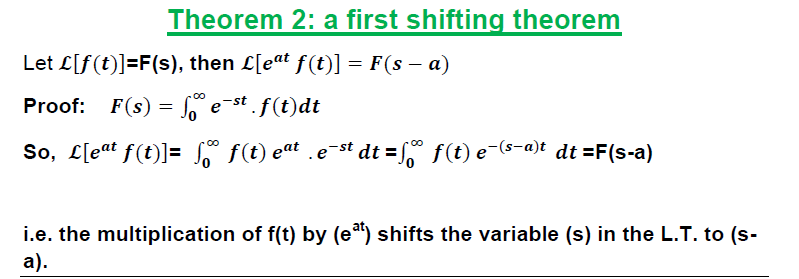




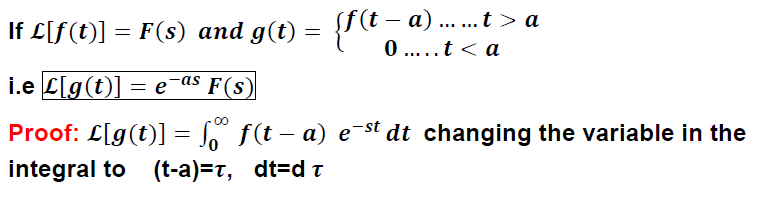




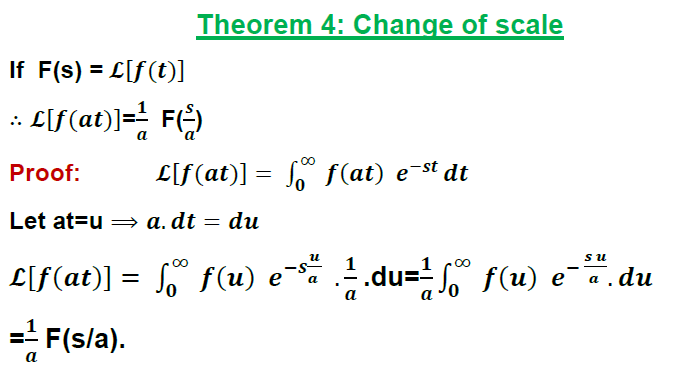




**Theorem 3: a second shifting theorem**







**Laplace transform of integral**

