

```

[> restart
[
[> with(inttrans) :
[
[> F1Trans := F(s) =  $\frac{s}{s \cdot 2 + 3 \cdot s + 3}$ 
[
[
$$F1Trans := F(s) = \frac{s}{s^2 + 3 s + 3}$$

[ (1)
[
[> F1 := f(t) = expand(invlaplace(rhs(F1Trans), s, t))
[
[
$$F1 := f(t) = e^{-\frac{3}{2} t} \cos\left(\frac{1}{2} \sqrt{3} t\right) - e^{-\frac{3}{2} t} \sqrt{3} \sin\left(\frac{1}{2} \sqrt{3} t\right)$$

[ (2)
[
[> F2Trans := F(s) =  $\frac{s}{(s \cdot 2 + 4) \cdot 2}$ 
[
[
$$F2Trans := F(s) = \frac{s}{(s^2 + 4)^2}$$

[ (3)
[
[> F2 := f(t) = expand(invlaplace(rhs(F2Trans), s, t))
[
[
$$F2 := f(t) = \frac{1}{2} t \sin(t) \cos(t)$$

[ (4)
[
[>

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