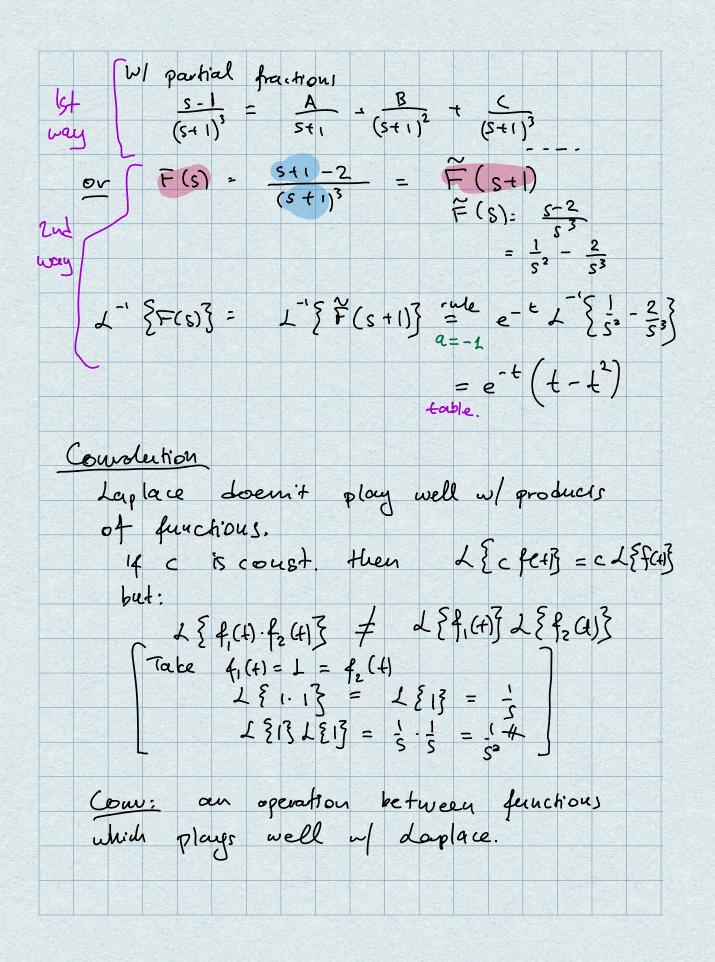
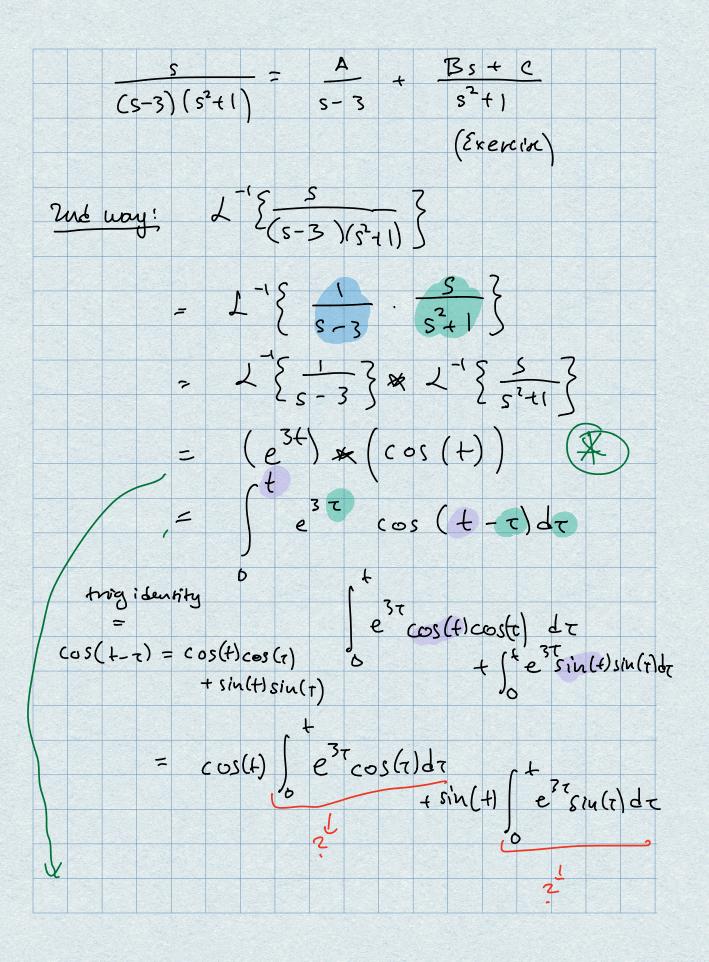
Plan for to	oday:									
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4.3	(last	part)	3	trausla	र्गाठप	on	sax	2		
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Defin: f,g pieceuise continuous, on Co, 0) € \*g(+) = f(T) g(+-T) dT convolution Couv. is commutative:  $f \neq g = g \neq f$   $f \neq g(H) = \int_{0}^{t} f(t) g(t-\tau) d\tau = -\int_{0}^{t} f(t-u) g(u) du$  $= \int_{0}^{\infty} g(u) f(t-u) du$ Convolution Theorem f, g nice. Then

L { 4 \* g 3 = L { 4 } 1 } 16 Laplace terres convolution into multiplication. Ex: Find 2 (\$F(s)), F(s) = 5 (s-3)(s2+1) Istuay: Partial fractions



Alternate way: from 
$$\bigcirc$$

=  $\cos(t)$  \*\*  $e^{3t}$ 

=  $\int_0^t \cos(t) e^{3t} dt$ 

=  $e^{3t} \int_0^t \cos(t) e^{-3t} dt$ 

exercise  $e^{3t} \int_0^t \cos(t) e^{-3t} dt$ 

=  $e^{3t} \int_0^t \cos(t) e^{-3t} dt$ 

exercise  $e^{3t} \int_0^t \cos(t) e^{-3t} dt$ 

=  $e^{3t} \int_0^t e^{-3t}$ 

nultiplication /division in t.

3. 
$$L \{ - \xi f(t) \} = -\frac{1}{4} L^{-1} \{ F'(s) \}$$
 (table  $f(t) = -\frac{1}{4} L^{-1} \{ F'(s) \}$  (entry 19)

4. If  $\lim_{t \to 0^+} \frac{f(t)}{t} = \lim_{t \to 0^+} \frac{f(t)}{t} = \lim_$ 

$$= \frac{d^{2}}{ds^{2}} \left( \frac{s}{s^{2} + 4} \right) 2 s (s^{2} + 12)$$

$$= \frac{1}{(s^{2} - 4)^{3}}$$

$$= \frac{1}{(s^{2}$$