Pice Transforms

If 
$$\beta(\beta(u)) = F(s)$$
,  $\beta(\beta(u)) = F(s)$ ,  $\beta(\alpha(u)) = F(s)$ ,  $\beta(\alpha(u))$ 

If 
$$\beta(\beta(0)) = F(s)$$
,  $\beta(\overline{s}) = \beta(1)$ 
 $\beta(\overline{s}) = 1, 5 > 0$ 
 $\beta(\overline{s}) =$ 

Inverse a Pre Transforms

If 
$$\beta(\beta(e)) = F(s)$$
,  $\beta(\overline{\beta}(e)) = \beta(e)$   
 $\beta(\overline{\beta}(e)) = f(s)$   
 $\beta(\overline{\beta}($ 

nveruse la la Transforms

$$\left(\frac{1}{2+5}\right)^{-1} = \frac{-5t}{2}$$

$$\left(\frac{5040}{38}\right) = 17$$

$$3i = 6$$
 $= 5f$ 
 $2i + 36$ 
 $6 - i$ 
 $2i + 36$ 
 $2i + 36$ 

$$(Ex)$$
  $\int_{3}^{1} \left(\frac{3}{5^{2}-9}\right)$ 

$$\left(\mathbb{E}_{x}\right)^{2}\left(\frac{2^{3}+36}{2}\right)$$

Inverse la place Transforms

nverse la Transforms

Linearily [ (a F(s) + b G(s)) = a P(e) + b g(e). ( f(t))=F(s), f(g(t))=C(s)  $f(t) = f^{-1}(F(s)), g(t) = f^{-1}(G(s)).$ (x)  $\int_{0.1}^{2} \left(\frac{2+3}{1} + \frac{2+5}{5} + \frac{24}{6}\right)$  $= \frac{1}{5} \left( \frac{2+3}{1} \right) + 5 \frac{1}{5} \left( \frac{2+2}{1} \right) + \frac{1}{5} \left( \frac{24}{6} \right)$ = e + 2 p + 13

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[2] 
$$\int_{-1}^{1} (z-a)^{2} = e^{-at} f(t)$$
,  $\int_{-1}^{1} (z-a)^{2} = e^{-at} f(t)$ ,  $\int_{-1}^{1} (z-a)^{2} = e^{-at} f(t)$ .

[Ex)  $\int_{-1}^{1} (z-a)^{2} = e^{-at} f(t)$ ,  $\int_{-1}^{1} (z-a)^{2} = e^{-at} f(t)$ .

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rese Laplace Frans forms =3  $\frac{1}{5}$   $\frac{1}{5+1-1}$   $\frac{1}{5}$   $\frac{1}{5+1-1}$   $\frac{1}{5}$   $\frac{1}{5+1-1}$ = 3 f ( \( \frac{12}{8} \) - 3 f ( \( \frac{12}{8} \) 1/4 \) = 3. et 12 - t - t 23 1 - t 3.

,

Trans forms  $\frac{1}{2}\left(\frac{1}{2}-\alpha\frac{S}{F(S)}\right)=\frac{1}{2}\left(\frac{1}{2}\right)$ 2 + 16 - (1) 2 2 ) = } (054(t-11) t) T

Inverse laplace Transforms  $\left(\frac{2-6}{6}\right)_{4} = \frac{1}{2}$  $\frac{1}{54} = \frac{1}{6} \left( \frac{6}{54} \right) = \frac{1}{6} t^3$  $(3-6)4) = \frac{1}{6} 6$