名九次WHF16 1. 解: 15) 2 = 1 (cosat-sinbt) = 1 (p+a2 - p+b2) 19) & fte st] = - (pt) = [P-1)2 11) 1 { dt (e-at sinut) } = pre[e-at sinut] - p. f(+0) - f'(+0) = p2. W - W $(|\psi) \mathcal{L} \left\{ \int_0^t t e^{\lambda t} dt \right\} = \frac{\mathcal{L} \left\{ t e^{\lambda t} \right\}}{P} = \frac{-|P^2|}{P} = \frac{1}{P(P^{-2})^2}$ = Lit") Lie at count) $= \frac{n!}{p^{n+1}} \cdot \frac{p+a}{(p+a)^2 + w^2} = \frac{n! (p+a)}{p^{n+1} ((p+a)^2 + w^2)}$ (18) L for w(t-4) h(t-24) = L ? cos w(t-2p)+p) h(t-2p)} = e-2pf I f ws w(t+4)} = e-2p4. I { wornt. wong - sinut. sin wp} = e-2p4. [p2+w2 - wsinwy] 6.解: 12) g-1 s 1-p = f-1 s p+1 - p+1 = e-t cost (4) 2 { pipta)}=[(a (p-pta)]= a(1-e-at) 16) x-1 { (p+1) (p+3) }=1-(\$\frac{1}{p+1}-\frac{1}{p+3})]=\frac{1}{2}(\sint-\frac{1}{12}\sin\sin\sin\sit) 18) 2 { \(\frac{1}{p_1 p - 1)^2} \) = 2 - {\(\delta p - \delta q p - \delta q \delta p + \delta p \delta p \)} = \(\delta (1 - e^2 + \delta t e^{2t} \)

(12) 17 { A'P | 2 | P + 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n | 4 | n (Pro)为表际中、产生wo ~ in sinut short) (18) 1-15 (P+1) (P+1) e-10P) = 1-16 e-10P (1- P+1) = (e-(t-10) hit +10) 7. 解:(3) 波(y(t)]= Tup). 即 1(y"(t))= p"1-py(0)-y"(0)=p"1-1

Lly'(t) }= pr- y10)= pr.

:对原方经的边门村风度联;

$$(p^{2}T-1)-(a+b)pT+abT=0.$$
 =) $T=\frac{1}{(p-a)(p-b)}$
: $y(t)=L^{-1}\{(p-a)(p-b)\}=\frac{1}{b-a}(e^{-at}-e^{-bt})$

け) (3×1(ynt))= 14) * メリッ"(+)]= p21-pyの-yの=p21+p+2 1 fint = 4 [fws 2] = 17 4 二对原剂的电师打成资格:

$$(p^{2}(p+p+1)-1)=\frac{1}{p+1}+\frac{1}{p^{2}+1}+\frac{1}{p^{2}+1}=\frac{p^{2}+3p^{2}+p+8}{(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)(p^{2}+1)(p^{2}+1)(p^{2}+1)}=\frac{2}{(p^{2}+1)($$

: y1t)= 2+{-(p+1+p+4)}=-00,2t-2sint

(19) 沒 [[xH]]=x4), => Y4), Z4) 国郊.

[] [] [] = px. Y ? y'(t)] = px. Y ? z'(t)] = pz. Y ? t] = f=

18). BDV&. $\begin{cases} PY-A+PX-b=4f+f \\ PY-A+X=3f+f \end{cases} = \begin{cases} X=\frac{1}{p_3}+\frac{1}{p_2}+\frac{1}{$