

## 数学作业纸

hwb. 七1. 乙分一十切的场流透透为下(WI, V正明: T. \( \frac{1}{2} \) \( \frac{1} \) \( \frac{1} \) \( \frac{1}{2} \) \( \frac{1}{2}

其中Wo.平

M. Fsw = I E F(W-nwo)

国时FS(W)=DTFT[升的] = 500 f(nT) e-jnTW

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tz. 已午DTFTEX的了:X(W), 非以下方到的

(a) X(h) 未 x\*(-n)

DTFT[xton].DTFT[xton].DTFT[xton] = X(w).(-(-X(-w))) = X-(w)

(2h+1)

DTFT[X(2n)] = EXXRNH) e-jnw

 $=\sum_{n=-\infty}^{\infty}\frac{1}{2}\left[\chi(n)-(-1)\chi(n)\right]e^{-j\frac{n-1}{2}}W$ 

= 10 [X(=) - = x(h) e -j. h(=+Tt)]

= 0= [X(=) - X(=+TO)]

(C) X(m-X(h-2)

DTFT[Xn)-X(n-2)]-X(w)-XW).e

(d) X(m # x(h-1)

DTFT[X(n=1)], X(m). X(m) e-jm

= x'(w) e-jw

to 证明·若XIN是XID的PTFT则

y(n)= } x(n/L) . n-kL. KCZ

mo DTFT为 Y(W) = X(LW)

My Yw = English e-jwh

= Exx(K) e-bwKL

= X ( Lw)