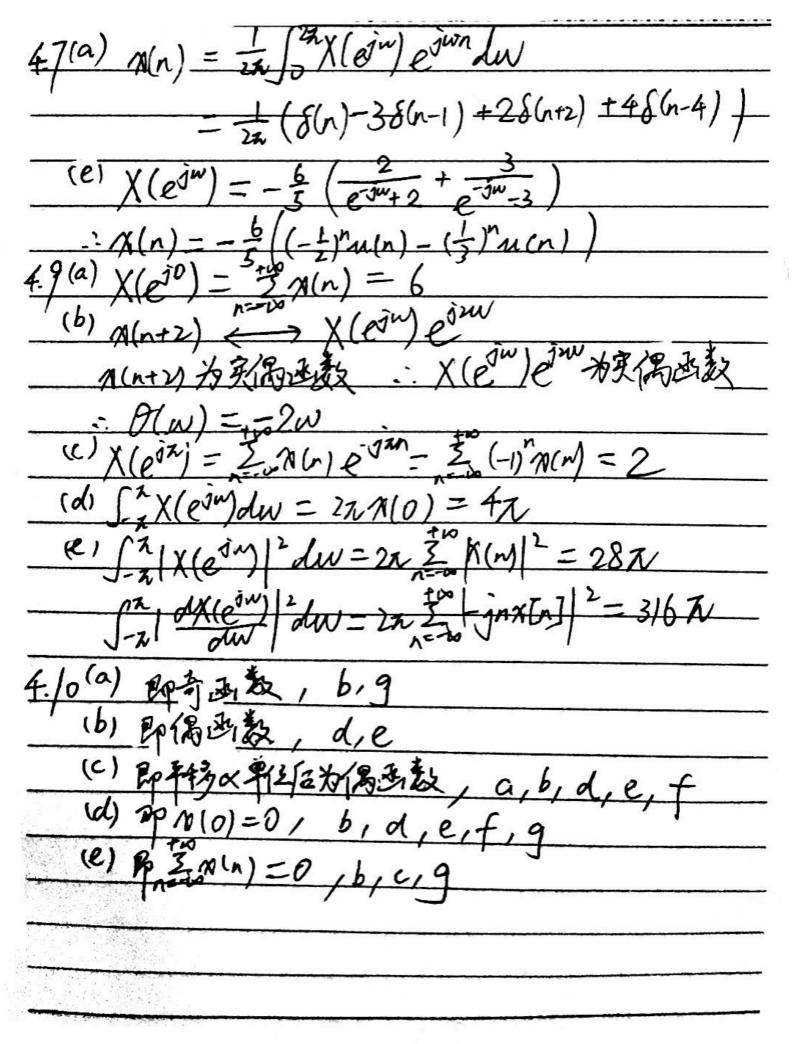
(66) X(ejw) = \(\frac{7}{2}\mu\n)e-jun	""
Ne-w	_
$=$ $\frac{1}{5}$ $2^n e^{-j\omega n}$	
n=-W2 V)	
$=\frac{2}{2iJ}$	
2-61	_
(9) X (ejw) = = = (x) S(n-3k) e Jun	_
= \frac{1}{4} \frac{1}{4} \frac{3}{4} \frac{1}{4} \fra	
(20)	
$= \frac{1}{1 - (e^{-jw})^3}$	
(1) $sin^{\frac{1}{2}} \longrightarrow X_{1}(sin^{\frac{1}{2}}) = 11$	_
m /(e)	
$\left \left(0, \frac{n}{3} < W \le \pi \right) \right $	
sin# (-> X(e)")=21, w < 4	
0, 2 < w < \7	
$X(e^{jw}) = \frac{1}{2\pi} X_1(e^{jw}) \otimes X_2(e^{jw})$ $= \begin{cases} \frac{1}{4}, & \omega \leq \frac{\pi}{12} \\ \frac{1}{4}(\frac{\pi}{12}\pi - \omega), & \frac{\pi}{12} < \omega \leq \frac{\pi}{12}\pi \end{cases}$ $= \begin{cases} \frac{1}{4}(\frac{\pi}{12}\pi - \omega), & \frac{\pi}{12} < \omega \leq \pi \end{cases}$	
1(e) - 12 /1(e) /2(e)	
$= \int \frac{4}{12} \frac{ \omega }{12} \frac{1}{12} \frac{1}$	
文(元スー/い) / 元 / 101 < 元え	
10/12/10/22	



4.14 H(eow) = 11, w < 2
$(a) \times (e^{j\omega}) = \frac{1}{1-3-j\omega}$
- Y(em) = 1 1 1 2
1-4eJW W = 3
- 10, 3< INI < N
y(n) = I sh y(ein) ejwa dw
$=\frac{1}{2\pi}\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}}\frac{e^{jwn}}{1-\frac{3}{2}e^{-jw}}dw$
= in] = 1 - 3 e-jw olw
= est (2-arctan 2/3)
TV_X
$\frac{(b)\chi(e^{j\omega})}{=2\pi\sum\delta(\omega-\chi-2\pi k)}$
$Y(e^{su}) = 0$
y(n) = 0
$(d) \alpha(n) = e^{j\frac{2}{2}n} + e^{j\frac{2}{2}n}$
$= \chi(e^{j\omega}) = \chi(\sum_{k=-\infty}^{\infty} \delta(w-\frac{\lambda}{2}-2\lambda k) + \delta(w+\frac{\lambda}{2}-2\lambda k))$
$Y(e^{3m})=0$
y(n) = 0

28(n-1)-118(n) + 35 (-4) meni) -3(-1) un)+35 (-4) un) $\frac{4.22\% Y(e^{jw}) = \frac{1}{1 - \frac{1}{3}e^{-jw} + \frac{1}{1 + \frac{1}{3}e^{-jw}}}{\frac{3(e^{-jw}+6)^{3}e^{-jw}}{3(e^{-jw}+6)^{3}}} = \frac{3(e^{-jw}+6)}{(3-e^{-jw})(2e^{-jw}+3)} = \frac{3(e^{-jw}+6)}{(3-e^{-jw})(2e^{-jw}+3)} = \frac{3(e^{-jw}+6)}{(-4)^{2}e^{-jw}-3e^{-jw}-9} = \frac{27}{4} = \frac{(e^{-jw}+6)(e^{-jw}+4)}{(e^{-jw}-3)^{2}(2e^{-jw}+3)^{2}}$ y(n) = ?