

Ans: By the synthesis formula

P. 169

Note Title

4/2/2010

Q. Multiplication property

$$x[n] \cdot y[n] \longleftrightarrow$$

Example : 5.15

Q.  $x[n] = \frac{\sin(\frac{3\pi}{4}n)}{\pi n}$ , find  $X(e^{j\omega})$ .

Ans :

Q<sub>2</sub>:  $x_2[n] = \frac{\sin(\frac{\pi}{2}n)}{\pi n}$ , find  $X_2(e^{j\omega})$

Ans:

Q<sub>3</sub>:  $y[n] = x_1[n] * x_2[n]$ ,  
find  $Y(e^{j\omega})$

Ans:

Q<sub>4</sub>:  $z[n] = x_1[n] - x_2[n]$ .  
Find  $Z(e^{j\omega})$ .

Ans:

Case 1:

P. 172

Case 2:

Case 3:

Case 4

Case 5