



PROBLEM 13.1:

$$x[n] = 3 + 2e^{j0.2\pi n} + 2e^{-j0.2\pi n} - 7je^{j0.7\pi n} + 7je^{-j0.7\pi n}$$

$\swarrow 7e^{j\pi/2}$ $\swarrow 7e^{j\pi/2}$

(a)

$\hat{\omega} = -0.2\pi$ is same as $\hat{\omega} = 2\pi - 0.2\pi = 1.8\pi$
 $\hat{\omega} = -0.7\pi \rightarrow \hat{\omega} = 2\pi - 0.7\pi = 1.3\pi$



SPECTRUM of $x[n]$

(b) $x_b[n] = x[n]e^{j0.4\pi n}$

All frequencies will be increased by 0.4π

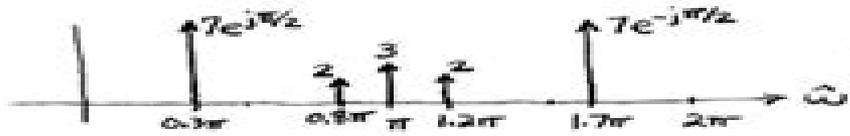
$0 \rightarrow 0.4\pi$ $0.7\pi \rightarrow 1.1\pi$ $1.8\pi \rightarrow 2.2\pi$
 $0.2\pi \rightarrow 0.6\pi$ $1.3\pi \rightarrow 1.7\pi$ $\leftarrow = 2.2\pi - 2\pi = 0.2\pi$



SPECTRUM of $x_b[n]$

(c) $(-1)^n = e^{j\pi n}$, so all frequencies increase by π .

$0 \rightarrow \pi$ $0.7\pi \rightarrow 1.7\pi$ $1.8\pi \rightarrow 2.8\pi \rightarrow 0.8\pi$
 $0.2\pi \rightarrow 1.2\pi$ $1.3\pi \rightarrow 2.3\pi \rightarrow 2.3\pi - 2\pi = 0.3\pi$



SPECTRUM of $x_c[n]$

Signal Processing First Solution Chapter 13

S Ben Porath



Signal Processing First Solution Chapter 13:

Reviewing **Signal Processing First Solution Chapter 13**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Signal Processing First Solution Chapter 13**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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