

HW8Q74 Prob 3.39.

Consider a DT LTI sys w. freq response

$$H(e^{j\omega}) = \sum_{n=-\infty}^{\infty} h[n] e^{-j\omega n}$$

$$= \begin{cases} 1 & \text{if } |\omega| \leq \frac{\pi}{8} \\ 0 & \text{if } \frac{\pi}{8} < |\omega| < \pi \end{cases}$$

Q: If $x[n]$ has period 3, then $y[n]$ has only 1 non-zero FS coeff b_k

Ans:

