hnotch
$$[n] = \mathcal{S}(n) - \lambda \cos(\omega n) \mathcal{S}(n-1) + \mathcal{S}(n-2)$$

Which frequency/frequencies have $\text{Hinotch}(e^{j\omega}) = 0$?

* $\mathcal{S}(n-n\omega) \stackrel{\text{Fi}}{=} 2 e^{j\omega n \omega}$, $\mathcal{S}(n) \stackrel{\text{Fi}}{=} 2$

Hinotch $(e^{j\omega}) = 1 - 2\cos(\omega n) e^{j\omega} + e^{-j\omega}$

$$= e^{j\omega} \left(2\cos(\omega) - 2\cos(\omega n) \right)$$

$$= 2e^{j\omega} \left(\cos(\omega) - \cos(\omega n) \right)$$

If [w=twn] +(e)a)=0