LIVYLL HOW

 $e^{j\omega_{0}n} H(e^{j\omega_{0}})$ + $e^{-j\omega_{0}n} H(e^{-j\omega_{0}})$ $= \frac{1}{2} \left[\frac{1}{2} (1 + e^{j\omega_{0}}) e^{j\omega_{0}n} + e^{-j\omega_{0}n} (1 + e^{j\omega_{0}}) \right]$ $= \frac{1}{2} \left[\frac{e^{j\omega_{0}n} + e^{-j\omega_{0}n}}{2} + \frac{e^{j\omega_{0}(n-1)} + e^{-j\omega_{0}(n-1)}}{2} \right]$ $= \frac{1}{2} \left[(\omega_{0} (\omega_{0}n)) + (\omega_{0} (\omega_{0}n-1)) \right]$

YaINJ

HP





