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Hence proved

6.3 b) Y(ejw) = @@@@@ \$ [5 m x[n-m] e-jwn

N=-00 m=0 - \$ [5 a y[n-1]) e-jwn

N=-00 l=1 Y(eiw) = (5 bm e-jwm) X(eiw) (5 ale-jwr) X(eiw) $\frac{Y(e^{j\omega})}{X(e^{j\omega})} = \left(\frac{\sum_{m=0}^{\infty} b_m e^{-j\omega m}}{(1 + \sum_{m=0}^{\infty} q_n e^{-j\omega L})}\right)$ c) y[n] = n[n] + 0.94[n-1] y(eiw): x(eiw) + 0.9e-jwy(eiw) Y(ejw) = 1-0.9e-jw d) Y(eiw) = x(eiw) - 0.9 e-jw (Ye(eiw)) => Y(ejw) = / X(ejw) = /1+0.9e-jw



