Práctica 3 lunes, 19 de febrero de 2024 6) Xt = 3 Wt-2 + Wt $\mathcal{T}_{o} = \mathcal{L}_{o} V \left(\chi_{0} \chi_{0} \right)$ = Cov (3W-z+W, 3W-z+W) = Cov (3W-2, 3W-2+W)+Cov (W, 3W-2+W) = 9+1=10 $\gamma = cov(\chi, \chi_1)$ = cov (3W_3+W0,3W_2+W,) = cov (3W-2, 3W-z+W,)+cov(Wo, 3W-z+W,) = 0 $\gamma_2 = cov(\chi_0, \chi_2)$ $= Cov(3W_{-3}+W_0, 3W_{-1}+W_2)$ $\gamma_3 = cov(\chi_0, \chi_3)$ = cov (3 W-3+Wo, 3 Wo + W3) $= cov(3W_{-3}, 3W_0 + W_3) + cov(W_0, 3W_0 + W_3)$ 6) $\chi_{t} = - 2 W_{t-1} + W_{t}$ To = cov (X, Xo = cov (-12W-1+Wo,-12W-1+Wo) = cov(-12W-1, -2W-1+Wa)+cov(Wa,-12W-1+Wa) = >4+1=5/4 $\mathcal{T}_i = cov(\chi_0, \chi_i)$ = cov (-/2W-1+Wo, -/2Wo+Wi) = cov(Wo,-1/2(Wo)=-1/2 $\mathcal{T}_2 = cov(\chi_0, \chi_2)$ = cov (-1/2/W-1+W0, -1/2/W1+W2) $\mathcal{T}_3 = Cov(\chi_0, \chi_3)$ = cov(-/2/w1+w0, -/2/w2+w3) c) 24 = 3 Wt-z + 3 Wt-1 + Wt Do= cov (Xo, Xo) $= cov(3W_{-2} + 3W_{-1} + W_{0}, 3W_{-2} + 3W_{-1} + W_{0})$ = cov (3W-2,3W-2+3W-1+Wo) tov (3W1,3W-2+3W-1+Wo) + cov(Wo, 3W-2+3W-1+Wo) = 97/9+1=10.11 $\mathcal{T}_{i} = cov(\chi_{0}, \chi_{i})$ = cov(3 W-z+3W-1+Wo,3 W-1+3Wo+W,) = Cov(3w-1)3w-1)+cov(wo, 3wo)= 1+/3=4/3 $\mathcal{D}_2 = cov(\chi_0, \chi_2)$ = cov (3W-z +/3W-1+Wo, 3Wo+/3W1+Wz) = (ov (Wo, 3 No) = 3 3) X4 = X4-1 -12 X4-2 +12 Wt-1+ Wt Abt = Abt-1-1/2Abt-2 1=6'->26-2 67-6+/2=0 1± √1-4(2) - 1±i $(\frac{1}{6})^2 + (\frac{1}{2})^2 = \sqrt{\frac{2}{2}} \approx 0.71$ A Estucionario $e^{2} = \frac{3}{5} \times_{t-1} - \chi_{t-2} + \frac{3}{5} W_{t-3} - \frac{1}{5} W_{t-1} + W_{t}$ $Ab^{t} = \frac{3}{2}Ab^{t-1}-Ab^{t-2}$ 62-326+1=0 32+194-4 = 32+1-74 = 32 + 121

No estacionario

 $r = \sqrt{(\frac{3}{4})^2 + (\sqrt{7})^2} = 2$