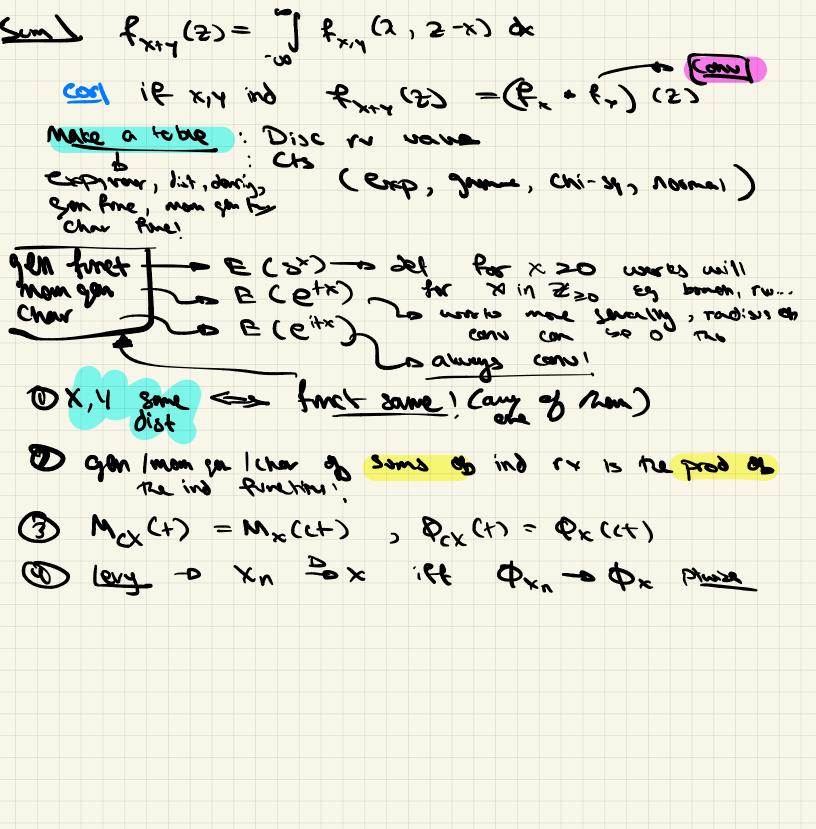
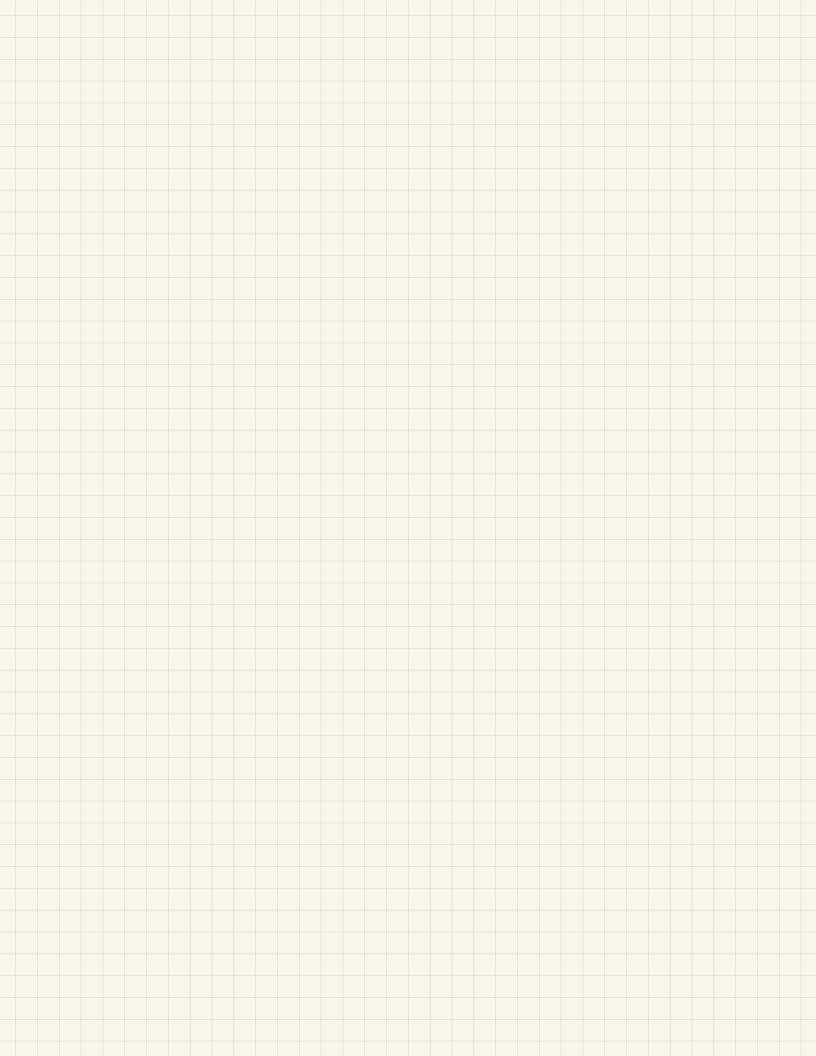


Revious Expectation: for Cts 14 10 with country of (1) ECO) = Jx fx (x) de get more 8 151 6x (x) 9x < +00 if g is good, $E(g(x)) = \int_{0}^{\infty} g(x) f_{x}(x) dx$ More soundy 1 2:155 - 15 vice E(2(x11)) = [{3(x14) +x, (214) 9x97 (cor) if xx ind, E(xx) = E(x) E(x) Irpep Fxy (xy) = Fx(x) Fx(y)) 12 CH3 = 5 from (214) = fx(x) fx (x) Margines lim Fx,4 (279) = fx (x) -0 Secral (b => fx(x) = [fxy (x,y) by Fx P(x=x) = & P(x=x, y=y) Rop 1 O Expectation is Wellow (D) If X>Y == E00) > ECY) 3 E(1) =1 Conditional Condit Dat for CB TX. $P(x \le x \mid y = y) = F_{x|y}(x|y) = \int_{-\infty}^{\infty} f_{x|y}(x|y) dx$ > $f_{x|y}(x|y) = f_{x|y}(x|y)$ => fxy (xly) = fxy (xy) = $E(x|y=y) = \int_{\Omega} x \, \ell_{x|y}(x|y) \, dx = \Phi(y)$ => E(x)(x) = \$(x) a xx | E(E(x)x)) x





ETQ @ E(Zmm Zm) Spose Y is the ru for Zm we note ECECSmm 2m / Zm) E (2min 2m 1 Zn) = (8(2m) A(N)- E(5min 5m 15m=2) = 2 B(5min 15m=2) = y E (= 22) = (2) Econ) $= E(3u) E(\lambda_5) = M_u E(3u)$ $= E(A_5 E(3u)) = M_u E(3u)$