per Lee. 6 notes, the affine solution to a linear estimator (where the random variables do not have a O-mean), we have the following Scenario: x=1x + Kxy Ry (y-1/y) So, computeits Rxy = IF((x-mx)(y-my)) = E((x-mx)((x+v)-E(x+v))) = F((x-Mx)((x+V)-Mx-MV)) = E((x-nx)((x-nx)+(v-n))) = E((x-1x)(x-1x) + (x-1x)(v-1x)) = Rx + Rxv (ble independent, E[XV] = E(+) E[V]) Rxv = IF(xv)-F(x)F(v) = 1/2 + 0 by definition of Ry = (IE((y-1y))) = [IE((x-1x+v-1x)(x-1x+v-1x))] =[E((x-m)2+2(x-m)(v-mv)+(v-mv)2)] =[Rx +2 Rx +R] $= \left(\frac{1}{12} + \frac{1}{12} \right)^{2} = \left(\frac{10^{2} + 1^{2}}{10^{2} \cdot 1^{2}} \right)^{2} = \frac{1^{2} \cdot 10^{2}}{1^{2} + 10^{2}}$ =) $\mathcal{U} = R_{xy} R_{y}^{-1} = \frac{1}{\lambda^{2}} \left(\frac{\chi^{2} R_{y}^{2}}{\lambda^{2} + M^{2}} \right) = \frac{M^{2}}{\lambda^{2} + M^{2}}$ Also, Luns has no exponential terms =) = 1 + m? (y-ny) = 1 + m² (y-1+m) SMATLAR = 1 -1 + (102) y = Zins both I non-line and zins have an offset term due to non-0 mean distributions. But the welf-injent term for y in ziems is constant, whereas

It changes as a function of y in Francis. 7-12