SPAB - ass 11 XN Poisson (N), YN Poisson (M) independent, pml 1ka-1 show: Z = X+Y ~ Poisson (1+m) considering the hint we steet with P[x+y=h] = [P[x+y=h, X=i] = E P [Y=k-i, X=i] = EP[Y=k-i] IP[X=i] - e-m-x 5 mb-i xi . bi - e-(u+1) 1 5 h! uk-i \ i = e-(x+m)1 > (") mk-1 = e-(x+u) 1 (,u+1) h = Paisson (1+ M)

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