









P(n(640) = \$(1.4) = for 2 students ((1.4)) (0) Total = [1- d(1.4)] [d(1.4)]2 50-6 11=40, -=4, N~N (40,16) P(n>50) = 1- P(n×50) = 1- P(N-40 (50-40) = 1-P(z>2s)=1-p(2s) P(ncso) = \$(2.5) So, out of 4, 2 will exceed 50 and 2 will not Sq-7 m= 205 12 12 3 V~N(6,1) $E(w) = E(yv^2)$ E(v) = 6($= Y[(v^2)] = 36$ = r [V(V) + E2 (U7) V(V) = 1 3 [1+36] = 11] P(W>120) = P(3V2>120) = P (V2>40) = 1-P(VCJ40) = 1- P(V-6 < 540-6) = 1-P(Z(0.3248) = 1- p(03245)

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58-8	Joint PMF, let n and y be d. v. v
ANT COMMENT	Priny (Miry) = P (M=Mir, Y=Yi) where (M',) Y',) = kn+y < P2
All and	Pn,y (n'), yi) > 0 E E Pn,y (nv,yi) > 1
	Joint Probability Density function
(7.6)	lot x & y ke C.R.V fn,y (ni,yi) = f(ncn)
	when (Mi, Yi) € {-0, ∞}
(i)	
(ii)	J-2 J-2 In,y (n,y) dndy = 1
50-9	7=0,1,2,3 (it n=30)
	$Rn_1y = \{(0,0), (0,1), ((0,2), (3))\}$
	Rn, y (ni, yi) = 3(n; y(4 5(3 (ni)))
[4WCS-0.5]	19-10-07 3117 - 13
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