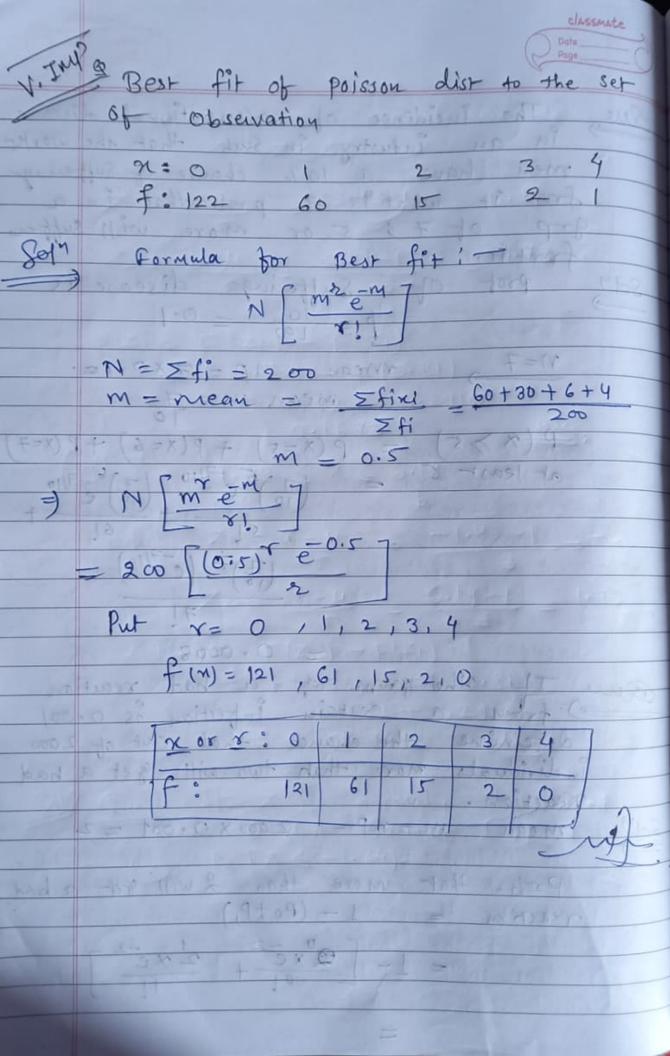
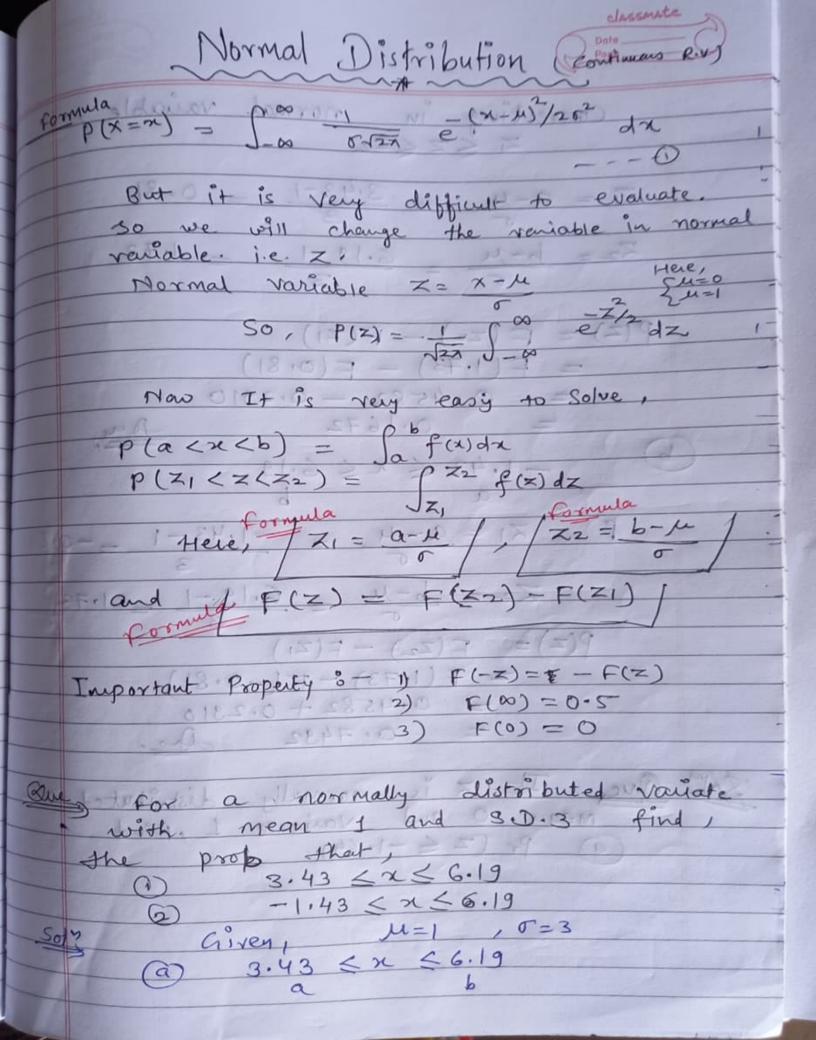


The incidence of occupational disease In an industry in such that the workmen have a 10% chance of suffering from it what is the prob that in a gop of 7; 5 or more will suffer. from it. poot of Suffering disease is p= 10 = 0.1 Mean np = 7 x0.10. = P(x=5) + P(x=6) + P(x=7)(7) 5 e 7/10 (7) 6 - 7/10 e + 10) e + 61 - .0.0008 Our It the probe of a bad reaction of from a certain intection is 0.001 determine the chance that out of 2000 Individuals more than two will get a bad mean m=np= 2000 x 0.001 = 2 reaction. Prob. Hat more than 2 will get a bad reaction = 1- (Po+P,) $=1-\left[\frac{2\times e}{0!}+\frac{2\times e}{1!}\right]$





Las Francis Buffeling, Johnson Page Converting in normal variable, 7 57 52 $Z_1 = a - \mu = 3.43 - 1 = 0.81$ P(Z) = F(Zz) - F(ZI) = F(1.73) - F(0.81) = 0.4582 - 0.2910 = 0.1672 Aug -1.43 Ex 6.19 $Z_1 = a - \mu = -1.43 - 1 = -0.8$ Z2= b-11. 6.19-1 -11.73 $P(z) = F(z_2) - F(z_1)$ = F(1.73) - F(-0.81) 0.4582 + 0.2910 0-10= 10.7492 As.

1861 Que It X is normally distributed with mean 0 and variance 1, Find a) Pr (Z ≤ -1.64)

11/2 3/6 3/64/17

2-10, = (=1),