Ex. Appr. 17% of the glass bottles coming off a production line howe serious flaws in the glass. If 2 bottles over roundonly selected, find the mean of the # of bottles that have serious flaws. Sol'n: X=#01 bottles with flaws (p(X) 10.81 0.17 0.01 > ohisth 0.0.81+1.0.18+2.0.01 二0.2

Ex. A heavy-equipment salesperson con contact 1 or 2 customers per dony with probability 1/3 and 2/3, Kesp. Each contact will result in either no sale et a \$50,000 sale, with the probabilities 0.9 and 0.1, resp. Find the mean of the daily sales. Sollh: X = daily sales $\frac{1}{2} \left( \frac{1}{2} - \frac{1$  $P(X=1) = \frac{2}{3} \cdot 0.1 \cdot 0.1 = \frac{2}{300}$   $P(X=1) = 1 - \frac{252}{300} - \frac{2}{300} = \frac{46}{300}$ E(X) = 0.252 + 50000.46 $+100000.\frac{2}{300} = $1.8333337$