HOME WORK.

1. $f(x) = \begin{cases} 0.1 & x = 2 \\ 0.1 & x = 3 \\ 0.1 & x = 5 \end{cases}$ On therwise $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{onesen} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the formula $\begin{cases} 1 + 5 & \text{otherwise} \\ 0 & \text{otherwise} \end{cases}$ On the form $\begin{array}{lll}
\widehat{Q} F(X) = & 0 & \text{for } (x < 1) & \text{C} \\
0.1 & \text{for } 1 \leq x < 2
\end{array}$ $\begin{array}{lll}
0.1 & \text{for } 1 \leq x < 2
\end{array}$ $\begin{array}{lll}
0.2 & \text{for } 2 \leq x < 3
\end{array}$ $\begin{array}{lll}
3. & (4.5.4) \\
0.5 & \text{for } 3 \leq x < 4
\end{array}$ $\begin{array}{lll}
0.5 & \text{for } 3 \leq x < 4
\end{array}$ $\begin{array}{lll}
(0.8) & \text{for } 4 \leq x < 5
\end{array}$ $\begin{array}{lll}
0.9 & \text{for } 5 \leq x < 6
\end{array}$ $\begin{array}{lll}
(0.9) & \text{for } 6 \leq x < 6
\end{array}$ $\begin{array}{lll}
(0.25, 2)
\end{array}$ $\begin{array}{lll}
(0.25, 2)
\end{array}$ = 0.22 $E(x) = 1 \times 0.1 + 2 \times 0.1 + 3 \times 0.3$ @ Since the metioned + 4x 0.3 + 5x 0.1 + 6x0,1 person has to be turke = 0.1 + 0.2 + 0.9 + 1.2 + 0.5 + 0.6 , as many as employed person, i't can only + 0.5 + 0.6 take values of 4,6,8. = 2.5 $Vag(x) = E(x^{2}) - (E(x))^{2} + C_{2}x^{6}c_{2}x^{7}c_{3} + (f^{2}x0.1) + (f^{2}x0.$ - (3.5)2 = 0.1357 = 1.85 3.5 × 10 = 35 (As they one 1.85 x10 = 18.5 (independent)

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P(X>1) 4. (4.5.10) = 1 - P(x < 0) The probability of attenting 1 - Phinom (0, 25, 0.0623) the party. accepting invitation comes wapourly = 0.7997865 `o., 645.14) 8.0×2.0 5 Symbols dere there. = 0.4 Probability of each symbl Atleast 8 people attend -P(x >8) Since all the 1+sials are = 1- PCx < 7) independent of each other = (- Pbinom (7,12,0.4) We cano expect the = 0.05730992 neceived to Identify Correct signal 5. (4.5.13) + × 25 = 5 T @ Challoged calls = 38 Penapability of Calk = 12 (1)
Penapability of Call Success = 0.2 (b) P(x 78) ~= 1- P(X≤事) (assumed),- 1- Phinom (7, 25, 0.2) Panobability of atleast 12 of = 0.1091228 38 challed pring oversyled -(C) P(×>1) PCX >12) = (- P(x<0) = 1 - PC × < 11) = (-pbinom (0,20,0.10912) = 1 - Pbinom(11,38,0.2) = 0.06230903 = 0.9008353 Since all the metches are independent of each other we can assume the probability! of as son over Aylad calls in Single orableh as calculated above and collectit for all the 25 matches.