Fx(21) Mean $L_{x} = \sum_{x} x \cdot P_{x}(x)$ 14 of a Bernoulli (7) $\frac{1}{x} = (6)(1-7)+(1)(7)$ = > On the average, value of x is P Mean of Geometric (P) $\begin{cases} |x| = (x) = (x) = 1, 2, \dots \\ 0, 0/L. \end{cases}$ $/x = \sqrt{x - p(1-p)^{\alpha-1}}$

$$\frac{1}{x} = \frac{1}{2} \left(\frac{1-a}{a} \right)^{x-1}$$

$$\frac{1}{x=0} = \frac{1}{1-a}$$

If contact shown

If
$$x$$
 is Binomial (N, P)
 $X = NP$
 $X = NP$

Px(x) Mean of X = X. the avarge ÌS d of calls Stated bafore)

Uniferm (x, e) (5) X is Dismede Kx = K+l ey:= -3-2-10123 93.5 (Q 2-5 2nd Edition) Sending -> prob. 1/3 -> 10 cents/text Receiving - 11 2/3 - 5 conte /text. C per text PMF of the Cost Lo can be 5 or 10 P(c)
2/3
5 1/3 P[c=5]=P[Rowi] = 2/2

Average Cost Mean of a Text U = E[C] = Dc.Pc(c) = (5)(3/3)+(10)(3/3)Function of a RV -> In the 3 - 6.1 a dismete RV Px (x) is given y = g(x)> Generally, Yis also a discrete RV Py(y)?

lg:- X is discrete uniform from $y = 2x^2 + 4$ Py (4)? Prepare a Table. X Prob. 2 - 12 4
3 - 22 4

$$A = \frac{0.13}{2} = 1.5$$

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