leum 13 10/2019

Renin downer.v. X, Syg(x) = {x: fex) >0} Y PMF (x), COF F(x) := P(X \in x)
:= P(X = x) of X is with a cerim range $P(a \le X \le b) = P(X \in (a,b]) = \sum_{X=a}^{b}$ $P_{\text{prini in manypair by a b}} = \sum_{X=a}^{b}$ $P(x \in (0,1)) =$ JOHOR Krom Sypposor! (x, p) = (x, p) = (x, p) $\int_{b-1}^{b} f(x) = (x, p) = (x, p)$ $\int_{x=x+1}^{b} f(x) = (x, p) = (x+1)$ $\int_{x=x+1}^{b} f(x) = (x+1)$ $\int_{x=x+1}^{b} f(x) = (x+1)$ Newider. Quile[x,p]:= {x: F(x)=p} cololly or percevile"

257.ile of X is the firm X 11 supposer SX F(8) \ge 0.25

X~ Birm (10, 0.4)

X \	€(x)	F&)
0	0.0060	0.0060
1	0,0403	0.0464
2	0.1209	9,1673
フ	0.2150	0.3823
4	0.2500	0.6331
	0.2007	0. 8338
5	0.1115	0.4452
2_	0.0425	0.1077
B	0.0106	0.8983
9	0.0016	9 9953
10	0.0001	1.9000
Sh	n =	N/A

Who is the 20% lang X? 3
Who is the 20% lang X? 3
Who is the 20% lang X? 6
Who is the 20% lang X? 6
Who is the 50% lang X? 4

Predim(X) = 4 : Ruil(X.5)

TRR(X):= Ruile(X.75) - Ruile (X.25)

IQR[X] := Quile[X,.75] - Rush (X,.25) f = 5-3=2"horn-quile range"

Marci All Listerham have all genides defind some for all For more be defind by a supplied.

Mode (x):= arginix { Los} her min is.... \$

Brit to expersion. Roller. Porte #1 bes on Rel => Even odds => hor #1 or rel, love #1 On Morrel

X~ (#1) hr,p. 10/30

E(X) := = (1) A(1)+(-1) A(1) = (1) \frac{10}{30} + (-1) \frac{20}{30}

(1, 1,) usely have gives ,4 the ned world. = -30 = - 40.053

If I play over all our again. I love on many \$5K.

Cach time.

Ber on lucky #7. Payan is 55:1

X- { \$1)5 mp. \$30

 $E(X) = \sum_{x \in Ay(6)} x dx$ = $(3C)\frac{1}{3a} + (-1)\frac{1}{3a} = \frac{35-37}{3a} = \frac{2}{3a} = -0.053$

"Dezen Bea" {1,..,12} Prym 25# X~ {#2 mp }

 $E(\emptyset) = = (2)\frac{12}{38} + (-1)\frac{26}{38} = \frac{38 \cdot 76}{38} = -\frac{1}{30} \times 10053$

All bets in roulette har de some apression!

In Burge, bean red

X~ & \$1 up. 18/20 -\$1 up. 18/20

March "farrar"

In the long run, your board! Bons is the America,

(Hu)

New gussian. I Robe Ober. If I take the Varyet home, it's 6 mm. If I take Jane Are, it's 18 mm. #0.40/mm. Ataffice on Langeto)= 30%.

E[w] = 6.7 + 10.7 = 92+30 = 7.2 min

Who show hom much I pay for my milege?

B:= \$ 0.40 mm W

 $Supp(B) = 40.40 Sup(C) = \{0.4.6, 0.4.10\} = \{42.40,4.00\}$

17 3 1 5 B

 $E[\bullet] = {}^{4}2.90(0.7) + {}^{4}4.00(0.3) = {}^{1}82.00$

= 9.4.6.0.7 + 0.4.10.0.3

1/3 P(B = \$1290) = P(W = 6mm)

DD = S b fo(b) = SOAN for som b = 0.4 12(m)

Our chaps of bise face, so my me bill is

1 gent, E[ax+c) = c+n E(x]

Nor so for Seach X ~ bro (6, +)

11 1 7 6

Simpor in copyrill, pinn is capyrill by some forther tours in stiffer in the service of the serv

19 mm