Lectre 19 Mah 2+1 11/2/16 Wa & 7 mm mp 0.3 Elw) = 85 min Use Charges #0, 40/min a surformon f a v.v. B= \$0.40/mm · w 3 B~ { \$2.80 p 0.7 E(B) = \$2.00.0.7+ B4.00.0.3 = \$3.12 Ligard our ship the should Common Grist ... Book 821 Colors the theory to do this ansonwilly Is store on easer my? B is a function of moder unable. 16 form is sizple: it's of

SC16! Of: 9(x) = 9 f(x) S.A. 9 E.R. Nok ohn B = g(lu) = Q. FL I is a sching francian. Is E(B) what re E(w) shough g?

Regard scape of course. FAKE PROOF! E(x):= \(X(u) R(du) \) A lebesgu irugal on a rensemble function If X is dienere - Syp(X) = { X1, 1/2, 1/3, 1... } Roll Stortx = Stordx + Stordx X(u) esqp(x) tues by def. = \(\times \tim = X, Solay + x2 Solay + -- - X, P(X=x) + x2 (X=x) +.

$$E[g(X)] = \int g(X(u)) R(du)$$

$$E(f) = E(X+c) = \sum_{X \in \mathcal{Y}(Q)} (X+c) p(Q) = \sum_{X \in \mathcal{Y}(Q)} (X+c) p(Q)$$

$$E(Y) = \sum_{i=1}^{n} x_{i}^{2} g(x_{i}) = \sum_{i=1}^{n} x_{i}^{2} (x_{i}^{2}) = \sum_{i=1}^{n} x_{i}^{2} (x_{i}^{2}) = 17.5$$

gosta do ir.

X~ Rabonula := { 1 " " 2" E(a)= (1-2-(-1)-3 = 0 V=10X => E(x)=108(x)=10.0-0 E(8) = E(9) \$ P_X(4) = P_Y(4) jor 14 obun 15 ... Jg(a) do = 17 kno for 7 g(x) Step 1 = 17 of course my different shapes con yeld the same over!

I is more different or spool or variet in g We seed a pressil so capture pair of this difference beau X, V. How above soreshing to do such how far the sypar is any for prior In X) close so pres; is y, for Im prov. Y nove dispersal.

enor Suson", loss Anepor" burn lois on of is @ or (3) C(X,M) = X-M C(m) = 1xm1 bed for taky deputar! Houl to prove thems ... e(xn) - (xn) 3 "gand avor loss" or LZ error". les L:= (v.v.)2 (v.v.) E(L) is who? The especial Sederra disone from My. It ames how for my on any is a reducen of X from its one rem "? $E(L) = E[g(x)] = \sum_{x \in Ap(x)} g(x) g(x) = \sum_{x \in Ap(x)} (x-n)^2 p(x)$ X - Rodemily = 0 $E(L) = (E_1) - (0)^2 g(1) + ((1) - (0)^2 g(1) = 1.0.5 + 1.0.5 = [1]$ Y=10X > M=0 $E(1) = (-10-0)^2 p(1) + (10-0)^2 p(1) = 100.05 + 100.0.5 = [100]$ he did om job. In Ims go neft het its en nou 02:= Var (x):= E/X-m2]

$$\sqrt{m(x)} = \left(0 - \frac{1}{3}\right)^{2} \frac{2}{3} + \left(1 - \frac{1}{3}\right)^{2} \frac{1}{3}$$

$$= \frac{1}{3} \cdot \frac{2}{3} + \frac{4}{3} \cdot \frac{1}{3} - \frac{6}{27} \cdot \frac{2}{9} = .259$$

$$\frac{2}{3} = \frac{2}{3} \cdot \frac{2}{3} + \frac{2}{3} \cdot \frac{1}{3} = \frac{2}{3} = .259$$

gent Amela?

$$Vm(x) = ((0) - (p1)^{2}(1-p) + ((1) - (p1)^{2}p)$$

 $= (1-p)(p^{2} + (1-p)^{2}p)$
 $= (p^{2}(p^{2} + (1-p)^{2}p)$
 $= (p^{2}(p^{2} + (1-p)^{2}p)$

Rullte: let or Kicky #7

$$X_{7} = \begin{cases} 435 & \text{if } \frac{1}{30} \\ -\frac{1}{9} & \frac{32}{30} \end{cases}$$
 $M = -\frac{1}{9}0.053$

$$V_{AN}(X_{7}) = (35 - 40063)^{2} = \frac{1}{318}$$

+ $(-11 - 13.063)^{2} - \frac{37}{38}$
= 33.20) 6^{2}

1111 Bes a Blue

$$Van(3) = (41 - 40.053)^{2} \frac{10}{30}$$

$$+(-41 - 40.053)^{2} \frac{20}{30}$$

$$= 0.9974^{2}$$

X7 -> M Thich goes fast. The one with laws variance. Xb -> n Unito! \$?... has no menning o Tasjest my to solve \$ 13 = \$ hile and repen responde les 6:= SE(X):= JVar(X) = 502 Standard arror " or Standard Lougram" O7 = \$5.79, 60 = \$1.00 62 Hypeann 6 ihramm ... not so cler! It is not in expersion. it is just a prontine strategy to regard spread. brown it will be ruft lass... E(7) = 5 + p(6) T2:-X, x X2 (Sales Hand to get