before A 10/30/14

X~ Biran (6, t)

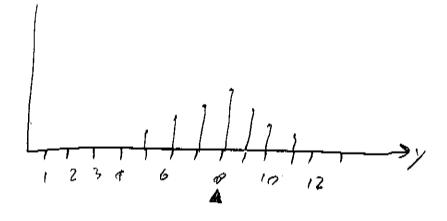
FED 1 1 1 1 2 2 2 5 6

E(2x) = 2 E(x) = 2.6. = -6

E(R) = 6-1 =3

Pirat is doublet sine all clauss as doublet

V= X+5



E(45): E(x)+5 = 3+5=0

Cresting slift over by on more, so does pros.

Her sheer Y = g(x). g is no making francison, Toples my X E Syp(X) and tenns it it good. Supp(V) = { you): X = Supp(X)} Les X = Bm (5, 2) , Yga = x2 f(0) = f(0) enc... When does prot go? Mot so siple, reed to go by defini E(Y) = \(\sum \forall = 9 f(0) + 1 f(1) + 4 f(2) + 9 f(0) + 16 f(4) + 25 f(5) + 36 f(6) = 17.5 ho tricks, just applichen.

In gent, E(i) = E(g(i)) =

"paramen" and is hoss of spirit me M:= E(X). Greek lesses one yell for the "trook" in the mulal. "Trook" and much are host "seal." The greeks insure yearing & logic and basic much. Southern me on also insured in how for guy the x is from m. For early, X2 Robernship, X2 10X

E(N) = 9, E(V) = 10 E(V) = 10.0 = 0

Mx=My=0. But X \$Y. Vio nove Signal " then X.

Any gim redison of I is make further for my steer my give redaming X in its distance from my! How for do we expect q vandon & to be from its teleologic verse? $e(x, A_x)$ where e is in error f

When should be pick for e? De should be general e(3,0)= e(3,3)

C(x,y) = C(x) Vx, y \ R & Negrow error door me some so e(x,y) = 0 Hxy xx,

3 and if the whomen te some, the should be so orner e(X,X)=0 the R Play of chains eg duss := |x-m/, e(x,m) = (x-m)², ... exe.

In Startistics, he chase e(x,m) = (x-m)² she e is a lift, forum.

(2) C(x) ((x-1)2) forem appens all on he place house eq. Is he daining the

3 makes good should possible ever funde may me, house

eg (3A)=1, (35)=4, (613)=100. being finds any is worse.

1 := (X-m)

Spund error of X is fundamently whether.

 $\int E(x) = E(x-n)^2 - \sum_{x \in S_{p}(x)} (x-n)^2 f(x)$ Expel nae: Variance! From the word "my" Ham with doses. it vary from when you copper? X2 boundle(0.3) = 54= 0.3 $\sqrt{n(x)} = E(x-0.3)^2$ = $(x-0.3)^2 f(x) = (0-0.3)^2 f(x) + (1-0.3)^2 f(x)$ = $(0.2)^2 0.77 f(x) = (0.2)^2 f(x)$ = (0.3)2 0.7 + (0.7)2 0.3 = 0.09.07 + 0.990.3 = 0.063 + 0.147 = [0,21] & april sque one lane In Bemulli(g) I has only as gones = or is a hour p 0 = E (x-m)2 = E (xp)2 = 2 (xp)2 for = (2-p)2 for + (1-p)2 for = p2((p)+(1-2p+p2)p - 65 b2 + 6.565+ B2 = P-P2 = P(1-P) $\frac{1}{\sqrt{1 - \frac{35}{30}}}$

h = -0.053 (from (mo time)

Var(X):
$$E(X-M)^2 = (35-0.053)^2 \frac{1}{38} + (-1-0.053)^2 \frac{52}{38}$$

$$= 9^2 \cdot 207$$
Where as the crisis? $L = (X-n)^2 \quad (\beta - \beta)^2 \Rightarrow \beta^2$
Variance is to the entarty anise squad... Not so exclus...

Had so that is $\beta^2 \cdot h^2 \cdot m^2 \cdot e^+ e^-$.

Need β way so "standardize" the enine of depressor.

$$O := SO(X) := \int Var(X) \qquad the 'standard decreases"$$
by who for egume room, $\int \beta^2 = \beta$, the tenin of $SO(X)$

$$\therefore he saw so the enine of X, Rooth(X, \beta), E(X). SO(X) = 153.00 M

O' to $Va(X) = 1$

Think $E(X-m)^2 = E(X^2 \cdot 2nX + n^2) = E(X^2) - 2n BM + n^2 = E(X^2) - n^2$

$$\Rightarrow E(X^2) = 5^2 + n^2 \qquad 6 \text{ Common form for } \beta M = X^2$$

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$$\Rightarrow C($$$$

E(X) is the firm run

EX-1 is de front and pros

Spily grans CAC. -Affil My Soft Jorafey

Mounts ne ir gent affeit so find 52= /m(x) = E(x2) - 12 $\sum_{x=1}^{7} \chi^{2}\binom{4}{x} p^{x} (4p)^{4-x} = \sum_{x=1}^{7} \chi^{2}\binom{4}{x} p^{x} (4p)^{4-x}$ $\left(\begin{array}{c} \times^{2} \binom{h}{x} = \times^{2} \frac{4!}{x!(h-x)!} = \times \frac{4!}{x!(h-x)!} = h \times \frac{(h-1)!}{(h-x)!} = h \times \frac{(h$ 4p & x (x-1) px-1(1-p) n-x np(\(\frac{\x}{y}\)) p/(\x) n-y + \(\frac{\x}{2}\)(\x) p/(\x) n-y) E(X) => np \(\frac{\text{\formation}}{\text{\formation}} \) \(\frac{\text{\formation}}{\text{\forma => np(mp+1) = hp(m=1)p+1 7 P (() () p (-) m - y = 4p(4p-p+1) => 62p2-np2+np-n2p2 = np-np2=/np(1-p)

Our for gunta is dos ... rest Class ... None + M2 M = \$0.40. W Sypan = 8,40,4.003 buch so Ohor engla 73¢ mesh dicerr Varla] = 8.538 # => 50(2) = 10.733 B=\$3+M => E(B)=\$5.80 Var (3)! What ober daperson? = Von (3+m) It moher serve the Vor (3+m) - Vor(n) digramin does Change on diffe Proof 02 = Va-8) Vm(x+c) = E(X+c-m)2 = E(X+c)2 + (E(X+c))2 = E(x2+2cx+c2)+(4+c)2 = Ex2 + 2cm +c2 - (m2 +2ac+c2) = Ekg-mi +2cm+ex-2/ce-ex Should make promove some => SO(K+C) = SO(K)) for the square. Var(w) = (6-7-2)2.0.7 · (10-7.2)2.0.3 = 4,76 => 50(w) = 1.83 NOK: 0.4 0183 = 0.73