Mart 341 Lev 2 2/2/17 X1, X0 20 Rem (B) Son (00/010) Let's yet ême for this comple ... who logue that it is ! (10,x) = ln (26,x) = ln (TT 0x (0)1-x) 8 (m. 75/0) = = Elm 840(-8) 1-40 Z(0, Xm., 46) 11 > 8 = & Vi ho + (1-4) h (-0) prod > sam Geolly = ho Ex; + (6-5xi) fullo) (HARD) (EASY) Roll X= 1 Exi = Exi hx = Ino (6x) + (6-6x) h(1-0) = 6 (x h(0) + (1-x) h(0)) Mr. .. ve madinge. use colones! O set to [d] = 6 (x (1) - (12) - 1) D = X & - (-x) -8 0 = \(\tilde{\pi} \) - (1-\(\tilde{\pi} \)) 0= x(+)-(-x)0 = x-x0-0+ x0 = 0=x-0mle Jon 694 X= = 3 On cale, above was regards of 1=6. It works for all is. Once: x, Once - X egamen garhyun hoonsin!

MIE's and the only estimas build he will me popular Considering (1) 8 mile 8 8 By def: YEZO IM P((dime - 8/2 E) = 0 =) Ome been ordannih Clase to a with high in (3) Ayuprora Normalis Ômie & N(O, SE(Brue)2) (3) Efficiency SE(Once) is the Hoverly lover soldere for The benefit are $\partial me = X$ $\sum_{n=1}^{\infty} \hat{Q}_{n} = \hat{X}$ $\sum_{n=1}^{\infty} \hat{Q}_{n} = \hat{X}$ X, , , X il Bern(0) => 8 me = X X,,, X, ~ (con(0):= (1-8) & Here, x is the # of failur before the first success. 5mp(8) = & O, 1, --3 (= 1/6) (4) = (0,1) parm spore

Observe Porm -> Pick X -> Po Toponer nin ME Why's wray with this ????

(1) X11-1, X2 20 Bon (8) X= (0,0,0)
=> Paule - X => Same - 0 No contint, no hyp. tems
(2) What if you just know (4 (0,1) be (D. (0,1)) Prior knowledge Shouldest that come for sounding?
Prior kronledge Sloudded the come for sously?
How de an I? 5? No 80? No
Tuyonan integ. of conf int.
(A) our my regions of copinion, 95% will cover D
(B) before you begin 95%. close come com
For my gon shall (0.27, 0.81) he sugaran gester!
=) Fuguess+ Irluspannia se garlinge. you use P(Dect)=1-0
4) Mp. Teny Falso wiges Ho, Hor Do - 9.5 (fair) Pejer Ho
Hai DE Do = 0.5 (Girfar) Phe := P(speig tis entence on more) Ho Van tour seet (H) V
You how get P(Hn/X) or P(Hs/X)
Who me 10 N. 10. 1 . h.

St. . Lez 446atifying!!

Even in our case ...

$$(0,0,1,0,1,0) \Rightarrow x = \frac{2}{3}$$

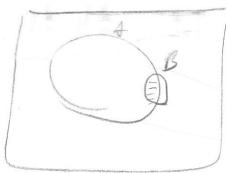
CTO, 954. =
$$[\delta^{\pm} Z_{254}, \delta(1-\delta)] = [0.33 \pm 2. Jo.33.067]$$

= $[-0.60, 1-26]$ Wy ??
954 ymore normly reader dear kick in 5+ 4=6.

he will supper so solve the problems ...

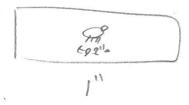
Recall

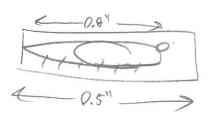
52



$$P(A) = 0.7$$
 sinde
 $P(B) = 0.06$ lay con
 $P(A, D) = 0.036$

P(B/A) = (P(A,B)) = P(A,B) = P(A,B) P(B) = P(A,B)





$$\Rightarrow P(B,A) = P(B|A)P(A) = P(A|D)P(B)$$
 Byes Role is well

Also
$$P(e) = P(0, S) + P(0, S') = P(0) P(e) + P(0) P(S')$$

Kréo any so look at this ...

What she taget of estiman have? Prof 1.c.

What's the form? Smoky prob of down

P(B|A) = P(A|B) P(B) ~ prim pri Parny data prim pra,

P(B) prin. my? Best gress at the ownser!

A don best cornir

Beyesin Continuous

P(B) >> P(B)A) Bryesin Continulum

(Alex) = P(1) (PA) (PA) = position prob. John prin prob.

(Alex) > P(2) = position prob.

Liste de more likely under prob when in grade P

Partle Odds (A):= $\frac{(a)}{\rho(a')} = \frac{\rho(a)}{1-\rho(a)}$ range? if $\rho(a) \in (0,1)$ non zero, each $(0,\infty)$

Odds=5 "5:1 ie. 5 tim it will by Odds Agm (1) = odds(1)