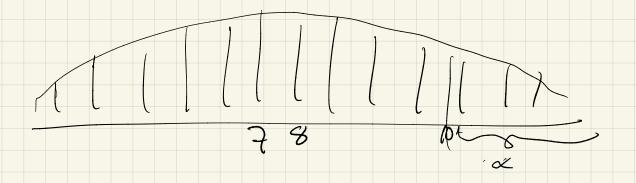
16/11 kap 13 thy potes proving

Ex David Man & SP, Man Kan for utsage resaltated

Viol Slant surgling

 $X = antelliatt, X \in Bin(15; P)$ Nollhypoter $H_0: P = 0.5 (Hanginan)$ $H_1: P > 0.5$

Testvariabel Z = ental rætt om the sam Z \ Bin (15;0,5)



8m
$$\times 710$$
 $\propto = P(X=10) = 1 - P(X=9) = 1 - 0.85 = 0.15$
8m $\times 712$ $\mathcal{L} = P(X=12) = 1 - P(X=11) = 1 - 0.98241 = 0.0176$
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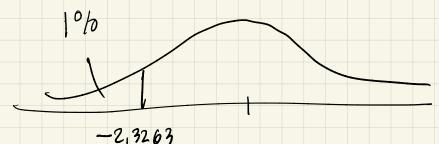
Hun høg en testets styrka? Hun 5 ton ær sammolik breken ætt upp tædea ætt H, ar sam, P>0,5 5 tyrke fank bronen hp) = P(Ho fortraskas | H. sann) $h(0,7) = P(X \ge 11 | X \in Bin(15,0,7)) = 0,5155, B = 48,8\%$ $h(0.8) = P(X \ge 11 | X \in Bin(15; 0.8)) = 0,836 = 10 = 16,4\%$ n=15

Ex Brust Primar X:=lus langd ZieN(M;10), N=15 A vill Visa ætt Wan Mar natt Provar Ho: U=190 mot H,: U=200 testvariebeln, $\overline{X} \in N(u) = \overline{n} = \overline{20/5n}$ € N(0,1) N(0,1) Kutusktourade: $for kaste Ho \propto -1\%$ em $\frac{\overline{X}-190}{10/\sqrt{15}} > 2.13263 = \lambda_{001}$ $\overline{X} > 190 + 2,3263 \frac{10}{\sqrt{5}} \approx 196,01$ 2 terson X = 194,8 så Ranto inte for Kostas

B satter upp foliade

Ho: M = 200 H: M = 190 M = 200 M = 200 M = 200 M = 200

Fõrkasta Ho Pa L = 1% oun



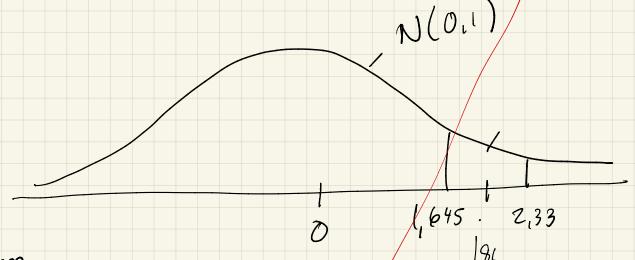
 $+(x) < -2,3263 \implies X < 200 - 2,3263 \implies \approx 193,99$ Of tenson X = 194,8 > 193,99 see than the links for that the same of the second of the sec

Bada Kan Næfel, Bæda kan ha tætt!

Brytpinner

$$L(X) = \frac{\bar{X} - 190}{10/\sqrt{15}} > 1.6449$$

$$+(x) = \frac{199.8 - 190}{10/\sqrt{15}} = 1.86$$



Hosam

$$D(\bar{X} > 194.8) = (-0(1.86) = 1 - 0.9686 = 8.0314 = x$$

Bestain et 98% komfideus entervall for le $N(u;\tau)$ $\tau=10$ $\eta=15$, $\lambda_{0,01}=2,3263$, $\chi=194,8$ $u \in (\overline{x} + \lambda_{0,01} \overline{\nabla}_{n})$ lic (194,8 ± 2,3263 10) he (194,8±6,01)

li E (188,8, 200,8), (98%)

u=100 u-200