Read H.O. 12, Derrore Book Chp8.

1,)

1.2) G(-Ex/2) + 1- (n(Ex/2) .y (19.9) = 0.227, y(19.95) = 0.093, y(20.1) = 0.227, y(20.15) = 0.442 .y(20.2) = 0.05, y(20.05) = 0.093, y(20.1) = 0.227, y(20.15) = 0.442 .y(20.2) = 0.697, y(20.25) = 0.856, y(20.3) ± 0.952, .y(20.4) = 0.998, y(20.5) = 0.99998 + see end of polit for sketch of power curve.

(13.) power. t. test (N=, delha 0,15, sd = 0,43, sig level = 0,05, power = 0.8,

type = c("one.surple"), a knowe = c ("one.sided")

=> N = 53

2)

quale = pt(T, N-1) = 0,012

* Tere is not sufficient enduce to reject the rull using a = 0.01 & prate = 0.012

2.3) looking at 4.0.12,10g 29 Table A11 we see

(3.1.) TS = 9.2, p. value = 0.0028 9 to yes, the is significant encluse (a= 0.10) That the Student demoter from the sendence is less them 10.

(3.L) +su & Er caripetatan. 4(5) = 0.00002687706 , 4(6) = 0.008725504, 4(7) = 0.1280751 4(b) = 0.4351858 , y (9) = 0.7340757 , 4(10) = 0.90.

ask the (3.3) \ \ \frac{(n-1) 52}{72 \text{eq}2} => in R: sqrt(((\length(k)-1)^n var(k))/qchesq (0.5, \length(k)-1)) = [\frac{1}{2}, 15174],

4) (41) see R Er comprehen.

St = 10, power(st, length w, 0.5) = 0.2121761=> Pail to reject will. glorian (0,05, layth(1), 0,5) = 8 > 10 = 5, => Pul to regard null

(4.2) See R for comportation: WALL- & = & SIGN TONK (KIN, TML) = 101 L W = 112,5 ; plushe = 0.09540713 => ful to reject noll.

(4,3) 1+ 6412 th => 118+14711 120 = 120,519.

+ see & he compotation

(51) (0.8668265, 0.9731735)

(5.2) yes, the is significant endure that the in provid method has increased the accuracy over the current method as the old accuracy 0.80 is whom the lover bound of vor in for the accoracy of the new method.

(53) y (0.75) = 0.03762626, y (0.86): 0.27 118896, y (0.85):0.67246294 11(0,00) = 0,0000047 , 110,95) = 0.4986415

(5.4) See R For calculator: N=83

(6.2) (6.3) A (6.2) C (6.3) C (6.4) B (6.5) D (6.6) C (6.7) A (6.8) B

(69) B