Granzant fir Leistongsaufnahme No=4,21mh Unbekamte mittle (eistongsaufnahme Nx X normalvateret

< = 0, 0 1

Hypothesen test: Ho: NK = No = Nx = 4,21 W

Hn: N > No = Nx > 4,21 W

Problem: Ex, px: unbekant

Testfulition: T= X-No >t-Verteiling

 $\bar{X} = \frac{1}{n} \sum_{i=1}^{n} x_i^2 = \frac{1}{100} \left[16 - 4, 20 + 36 - 4, 21 + 36 - 4, 22 + 17 - 4, 23 \right]$

= 4,2144

 $S^{2} = \frac{1}{n-n} \sum_{i=n}^{n} (x_{i}-x_{i})^{2} = \frac{1}{99} \left[16 (4,2-4,2n44)^{2} + 12 (4,23-4,2n44)^{2} \right]$ $3((4,2n-4,2n44)^{2} + 32(4,22-4,2n44)^{2} + 12(4,23-4,2n44)^{2})$

= 8,0187.10⁻⁵ (mw)²

Tests: It: Nx=Po wer It1=t(1-\frac{1}{2}, n-1)

1+: px = po ven t = t(1-1, n-1)

1+; Nx Zpo wer (2-+'(1-2,n-1)

$$t = \frac{x - N_0}{S / V_0} = \frac{4.2144 - 4.21}{\sqrt{8.0187.10^{-5}}} = 4.914$$