Usihherhetsoppgaver

$$|O(4)| = |\frac{\partial cle}{\partial c} dc| + |\frac{\partial cle}{\partial b} db| + |\frac{\partial cle}{\partial a} da|$$

$$= |\frac{2\pi dc}{\ln(b/a)}| + |2\pi \epsilon aa| \cdot |\frac{\partial}{\partial a}| \frac{1}{\ln(b/a)}|$$

$$\frac{DUR}{CR} = \frac{2\pi \delta \xi}{\ln(6\pi)} + \frac{2\pi \delta \eta}{\eta \ln(6\pi)^{2}} = \frac{\delta \xi}{\xi} + \frac{2\pi}{\xi} \cdot \frac{\delta \eta}{\eta \ln(6\pi)}$$

$$= 0.270 + \frac{0.770}{\ln(2)}$$

1-6 n=8 midlinger, X=44.1, U=2, p=4970

 $V = \pi(\frac{2}{2})^{2} (\Sigma_{1} - \Sigma_{2}), \quad \Sigma_{1} \sim \nu(\nu=1202, \sigma=2)$   $N_{2} = N_{1} - \nu_{2} = 204$   $\Sigma_{2} \sim \nu(\nu=957, \sigma=2)$ 

 $\sigma_{12}^{2} = \sigma_{1}^{2} + \sigma_{2}^{2} = 444 = 8 = 0 \quad \sigma_{12} = \sqrt{8} = 2\sqrt{2}$   $\sigma_{12} = \pi_{1}(\frac{5}{2})^{2} \cdot \sigma_{12} = 55.5 \cdot 10^{-3} \text{ m}^{3}$   $\rho_{13} = \pi_{1}(\frac{5}{2})^{2} \cdot (1202 - 438)/(000)^{-3} \cdot 4.006 \text{ m}^{3}$ 

Dette es for I standardownih (uslaharheten normalt), så far i Lin 9590 konfidensintevall sar vi på II.96 standardævur, darfor setter vi ov,9520 ° v. 1.96 = 0.109 m³.

-P V + [4,005 + 0.109]

1.9 n=12, mx = 1.700 V, Sx = 0.02, p=1-9990 = 120

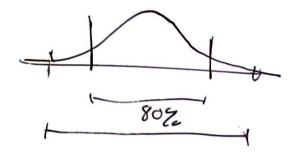
T = mx = tp = 1.7 + 3.000 = 1.7 + 0.017

To minher for glunde n, mans to pher like, mide fi = 1 = 2 = 4,

altsi & grouper flere milioger. Derfor finner ny to, bla, oc.

1.11  $M_{tid} = 23.3 \text{ ms}$ ,  $S_{tid} = 0.4 \text{ ms}$   $M_{tid} = 320 \text{ m/s}$ ,  $S_{tid} = 3.4 \text{ m/s}$   $S = \frac{V + 1}{2}$   $N_s = \frac{M_{tid} \cdot M_{tart}}{2} = \frac{7.456 M}{2} = 3.728$   $O_z^2 = \frac{2}{321} \sigma_{x_1}^2 \left(\frac{25}{3x_1}\right)^2 = S_{tid}^2 \cdot \frac{1}{12} + S_{tart}^2 \cdot \left(\frac{1}{2}\right)^2 = 4.638.10^{-3}$ 

9990 hunfidensintervall:



Severalle Lassbeath. h. Bee-

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