212008, 1. $\int (x) = 2\pi^2 x e^{-\lambda^2 x^2} \times > 6$ $\int (x_1 - x_n) = 2\pi^2 x_n e^{-\lambda^2 x_n^2}, 7\pi^2 x_n e^{-\lambda^2 x_n^2},$ $= 7^n 3^{2n} (x_1 - x_2 - x_n) \cdot e^{-\lambda^2 x_n^2},$ $\ln \int = \pi \ln x + 2\pi \ln x + \ln (x_1 - x_n) + \pi^2 x_n^2 / 1$ da = 2M - 22 Ex; = 0 M-775x=0 22 XI=N => N= 1 2. reomalus partiales x 112 114 116 118 120 122 m 2 2 3 7 5 2 3 => m = 22 a) X = 1 5 X; = 117 $\hat{S}^2 = \frac{1}{2} \left(\times; - \times \right)^2 = 8.6$ b) p=0.9 d=0.1 I ta= = to.gs =) we M-1=21 = 1,721 tal = 1.781. 2,944 = 1.08 P(117-1.08 = a = 117+1.08) = 0,9 I C,= 2241, NG = 221,0,05 = 11.531 C= X2 M-1, 1- 1 = X2, 0,95 = 32,671

```
B= 21.8.6 = 5.57 B= 21.8.6 = 15.7
       P (5,57 = 6 = 15,7) = 0,9
3, n=200 m=113
                         Nor 38.
  a) p=0.95 d=0.05
     P= 700 = 0,56 U1- = U1-0.075 = 40.975
    P1= 0,56- 40,975 \ 0,56.0.44 = 0.56-1.95996.0.035=
       = 0.56-0.0688 = 0.491
    P3 = 0,56 + 0.0687 = 0,6788
     P(0.591 = p < 0.6288) = 0.95
 b) 0,5 = 0.56 - (1) 0,56 - 0,44
     4.0.35 = 0,06
        M = 0.06 = 1.714
       WAL = 1.715
        1- = 0.36 = 0.04 d=0.08 P=0.92 = 92%
  c) p=0.95 6=0.08 UN 10 = UA-0.025 = 0.975
     0.5 = 0.56 - 1, 96 · Va. 56.045
      1.36 0.2469 = 0.06 /: 1.16
         10.7965 = 0,0306/Z
          0.2466 = 0,000 537 N= 0.7466 = 262.96 2 793
```

4, $a_6=35$ m=20 d=0.05 $H_0 = 0.35$ $x_1 | 34.8 | 34, 8 | 35 | 35.1 | 35.3 <math>H_0 = p \neq 0.35$ $m_1 | z | 3 | 4 | 6 | 5 <math>X = M(p_1 G^2)$ X = 1 . 2 x; = 35,07 3=1 2(x;-x)=0,0275 b=0,1658 $T = \frac{x - a_0}{5/52} = \frac{(x - a_0)\sqrt{n}}{5} = \frac{0.07.\sqrt{20}}{0.1658} = 1.888$ M-1=19 +1-4=2.093 Teti- & Hyralism to me more se odbrett $M_1 = 30$ $0_1 = 74$ $0_2 = 8$ $0_3 = 70$ $0_3 = 70$ $0_3 = 70$ W=0.0S $\frac{6^{2}}{6^{2}} = \frac{6^{2}}{4^{2}} + \frac{6^{2}}{4^{2}} = \frac{6^{2}}{30} + \frac{69}{40} = 3.358$ Bus = 1,833 U = - 3 = -1,636 U1-8 = U1-0.05 = U1-0.025=40.975=1.96 14,- 2/2 /2 / Ne more u adhaciti pretportarela do
ne postaje hipra nortela u bodonima

6. M=190 shocasa X- ba jojanjiranja setre
1 75 77 30 6 1 1 B
1 75 77 30 6 11 1 B(5 1/4)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
X Mi Pi Mig-Mpj (Mij-Mpj)/Mpi
0 75 0,40188 -1,3572 0,02412
1 77 0.40188 0.6428 0.00541
2 30 0.16075 -0.5475 0.00964
3 6
4 1 -0.0355 1.255 0,23351
5 1 1
190 2 2 0.27268
$p_{i} = (\frac{5}{2})(\frac{1}{6})^{5}(1-\frac{1}{6})^{3}$
Pj=[](=)(1-=)
$P_0 = {5 \choose 0}, {1 \choose 6} {5 \choose 6} = {5 \choose 6} = {5 \choose 6} = {3125 \over 7976} = 0.40188$
Po=(3), (6) (6) = (6) = 7776 = 0.40188
15). (AV 15)5 - 1/5)5 - 0 12003
$P_1 = {5 \choose 5} \cdot {6 \choose 6} \cdot {5 \choose 6} = 5 \cdot {6 \choose 6} = 0,40188$
$P_2 = {5 \choose 2} {6 \choose 6}^2 \cdot {6 \choose 6}^3 = 10 \cdot \frac{1}{36} \cdot \frac{5 \cdot 5 \cdot 5}{6 \cdot 6 \cdot 6} = \frac{1250}{7776} = 0.16075$
15 (5)(6) (6) 36 6-6.6 7976
(5) (/)3 (5)? 1 25 750
$P_3' = {3 \choose 3} {5 \choose 6}^3 {5 \choose 6}^2 = 10 \cdot \frac{1}{6.6.6} \cdot \frac{25}{6.6} = \frac{250}{7776} = 0.0371$
pa'=(5)(6) -(5) = 5, 1, 5 = 25 = 0.00321
$P_6 = \left(\frac{5}{5}\right) \left(\frac{5}{6}\right)^5 \cdot \left(\frac{5}{6}\right)^6 = \frac{1}{65} = 0.00013$
p'= p3' + p5' + p5' = 0,0355
(n-np') = -0,099+0,3901+0,9783 = 1.2665