16.05.24! Cenunas 10. Topolipia hopowerpureckie runosej. Byets X-c.b., jakou pacujegenemus rosopoi nenybesten. Oup. Cras. nunctejoù naj. notoe yt b-e ou. janoua pacupipeneuwe e. l.b. Compagnet j-4 pacup. C. B. X. B morribuscu cuyune and may. Crat. unorga naj. najamerpurickot, eini ona ela. yst-ene o juare unex naj-b jakono pacing, esigny bup. kor. ejs. Ormano exercio. com) 1) Popul unoreja Ho u (conkyp) H1 HOHI= , uo, boju., Ho+ HI WE UCREPHOTBOLOT Be boxu. Un the uni hi, now course apriliques. More apabuno, cras. upuremi japaeras c accu. Rak najorbanuero upur unionceciba. W= Xn, à peniarayes apabuno unest byo ZeW = { alemyto No, Ze 6 Xn W = { arberryor Hs. Cranox-abrends upporabulate manuer nomunamental gualler four 10 mm. The system browdered by n=16, chapmad herry reno exercic mariene quamera 10.3 mm. lyberro, roo november CKO estamenta parametra parametra a = 0.05 pm. befure maring a rom, roo chique marine prametra y 2. ma-pines generales generales a promises generales a promises promises promises a promises promises a promises promises a promises promises promises a promises promi porneu Pureme! Popularyayur jagaru: Tyer X-c. f. yournaingar marinul, paluoce grane by 4/2. My yourbur X~ N(m, 02), rge m-news., &= luns Ho= 2 m=mo} Cogniyayyan konxynyyovyo maorey H1; (e)  $M_1 = \{m \neq M_0\}$  — glycoponnum epusepum (b)  $H_2 = \{m \geq m_0\}\}$  equocroponnum epusepum (f)  $M_4 = \{m \leq m_0\}\}$  — me syghu,  $\pi$ .  $\kappa = 10.3 > 10=M_0$ 

Man upabono, noun runorey bourgant ran, rooter and orderand "nansame mo-

Ho = 1 m = mo 3 uporub H1 = 2 m = mo 3. T.o.

(c nomony sio unapromen brisigaene espeny I.)

Рассиотрим станистику

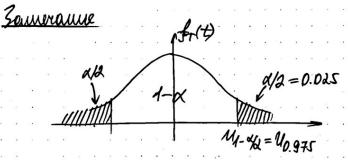
Réaurus MO11)

Bornemun  $T(\vec{x}) = \frac{\bar{x}-10}{4}\sqrt{16} = \frac{0.3}{4}.4 = 1.2$ 

U1- = U1-0.025 = U0.975 = 1.96

11.21 > 1.96 - mbeguo > 2 € W > gumon Ho, estepangos Hg

Orber: The yeable "x= 0.05 moneuro cruraro, ro unumarbitoti fuamero majural paben 10 mm.



Aba mayonana annegenem neuer marera, ucherry e pagnimente neuerargue. Pezyntrate: y neutono: n=4 quene marerie 70,20;

Cucuchyphanien gbyct. Existerine mobernes unosejy o vous, wo require lefyrestate chejanes la chyrationem annitrane. Yrobeno juarumocri:  $\alpha = 0.05$ .

Thunken stonic neight corpreb pacup, no again pacony c CKO D = 0.05.

## Pemenne!

1) Pombrigani jagari.
Tyoto X - c.b., yum. juarenne, pabure noxogamien pro memorgia

L'uchimare beautime nevenue.  $E_1 \sim N(\tilde{m}_1, \tilde{b}^2)$ , unione  $1^{10}$  nevenue appe  $\Rightarrow X \sim N(m_1, \tilde{b}^2)$ , age  $m_1 = \tilde{m}_1 + \tilde{m}_2$ 

ananomino:

flyero 
$$Y - \frac{1}{Y = a + E_2}$$
,  $E_2 \sim N(\widehat{m}_2, \delta^{ad})$ 

Torga YN(M2, M2), rge m= mx + a

2)  $H_0 = \ell$  pajeurus boybanor cayrasimoum annoxamu $g = \ell m_1 = m_2 g$  $H_1 = \ell m_1 \neq m_2 g$  (gbycropanium apureniu)

Pacamerphine cranically  $T(\vec{X}_{n_1}, \vec{Y}_{n_2}) = \frac{\vec{X}_{n_1} - \vec{Y}_{n_2}}{\sqrt{\theta_3^2/n_4 + \theta_2^2/n_4}} \sim N(0,1)$ upu Ho

W= { (\$\vec{x}\_{n\_1}, \vec{y}\_{n\_2}): | \tau(\vec{x}\_{n\_1}, \vec{y}\_{n\_2})| > U\_4 = a/4

Borrycume:

$$T(\vec{x}_{n,i}, \vec{y}_{n_2}) = \frac{70.2 - 70.5}{8} = \frac{-0.3}{0.05 \cdot \sqrt{13}} = -\frac{30.6}{6 \cdot \sqrt{13}} = -\frac{36}{43} \approx -9.98$$

[-9.98] 7.1.96 - bepure > (xn, yn2) ∈W > neuer woen H1, orbepraen H0

U1-0/2 = U0.975 = 1.96

<u>аве</u>г: принимаем, что разничие вызваны не шугативши принимами.

[N3]
Milerono, roto guenquia vymepenno xosqo-ta quime gbyo nobeprioceteir e ucu.
nexoropoir apoyegypor cocra baser 0,1 trocae vyminevim upoyegypor touro
apohegeno n = 26 minepinno, I per corquero acuyrino filarenne
Nono. bort. guenepenn 0.2. trabegior massey o rom, cro i perportote nynemenne dispersor prenercine uporpenno, ne vymemmaet. Py-rot vymepinni paeno. no higher prenercine uporpenno, ne vymemmaet. Py-rot vymepinni paeno. no higher prenercine uporpenno.

1) Popularyayue façarı Tyoto X-c.b., unun marellue, rabuol reynotatalı yulerellusi zaeg-te Themas c ubu. asticad. apoyepyror.

No N(m, 02), m- very 6., or very 8.

A) Ho = k guenepeure ul uyeu.  $\hat{y} = \{\hat{b}^2 = \hat{b}^2\}, \hat{b}_0^2 = 0.1$   $H_1 = \{\hat{b}^2 > \hat{b}^2\} - ognocz, apuzefini (z.a., lean guenepeure ymensuur$ nace, ro earecebo cynefeuni crano bonne).

$$I(\vec{x}) = \frac{S^{2}(\vec{x})}{6^{2}} (n-1) \sim \chi^{2}(n-1)$$

W= { 2: T(2) = h(as) }

Monuceum : T(2) = 0.2. 25 = 50; had = ho. 9 = 44.314

50744.31-bepuro & & EW & ppunumaen HI, orbepraem Ho.

Orber: Topunumaen, 400 guenepeure y benuremeaco.

30 meranne

0=0.01 (21)