N 13.

$$n = 139$$

$$n = 139$$
  $6_{1g} = 5,722$ 

 $H_0: \mathcal{O}_1^2 = \mathcal{O}_2^2$ 

$$m = 1000$$

$$6^{\circ}_{2g} = 6, 161$$

H1: 6,2 + 6,2

Krumeruii Puurepa:

$$F = \frac{S_2^2}{S_1^2} \sim F(999, 138)$$

Duena

$$S_2^2 = 6,161^2$$
;  $S_1^2 = 5,722$   $\rightarrow$   $F \simeq 1,159$ .

F Huce = F (2, 999, 138) ~ 0,76

0,76 < 1,159 < 1,31

HeT ocuobances опровергать Но

lllegruna

$$S_2^2 = 5,055^2$$
;  $S_1^2 = 4,612^2 \longrightarrow F \simeq 1,201$ 

0,76 < 1,201 < 1,31 -> Her oenobanni onpobegnato Ho

N 14.

$$\mathcal{L}_{n}: \hat{G}_{x}^{2} = 2: \{ \{ \{ \{ \{ \{ \} \} \} \} \} \} \}$$

$$H_o: a = \beta$$

$$y_m : 6y^2 = 1 : y \sim N(6; 6y^2 = 1)$$

$$H_1: q > \beta$$

$$x_3 = \{-1, 11; -6, 10; 2, 42\}, \quad y_2 = \{-2, 29; -2, 91\}$$

The Purregra:

$$N(0;1) \sim \frac{\overline{x} - a}{\sqrt{2}} \sqrt{n} \iff \overline{x} - a \sim N(0; \frac{2}{n})$$

$$N(0;1) \sim (\overline{y} - b) \sqrt{m} \qquad \overline{y} - b \sim N(0; \frac{1}{m})$$

$$\rightarrow (\bar{x}-a)-(\bar{y}-b)\sim N(0; \frac{2}{n}+\frac{1}{m})$$

$$H_0: \quad \overline{X} - \overline{y} \sim \mathcal{N}(0; \frac{2m+n}{mn}) \rightarrow \Delta = \frac{(\overline{X} - \overline{y})\sqrt{mn}}{\sqrt{2m+n}} \sim \mathcal{N}(0; 1)$$

$$0 > 8$$
:  $p$ -value =  $\int_{-\infty}^{\infty} q_{N(0;1)} \simeq 0,176 > d = 0,05 => nem acuologique H.$