

$$(12) \quad \xi \sim N(\theta_1, \theta_2^2)$$

$$W=1$$

$$H_0: D = \theta_2^2 = 0,1$$

$$H_1: D = \theta_2^2 > 0,1$$

$$\left\{ \right.$$

$$D = 0,1$$

$$S^2 = 0,2$$

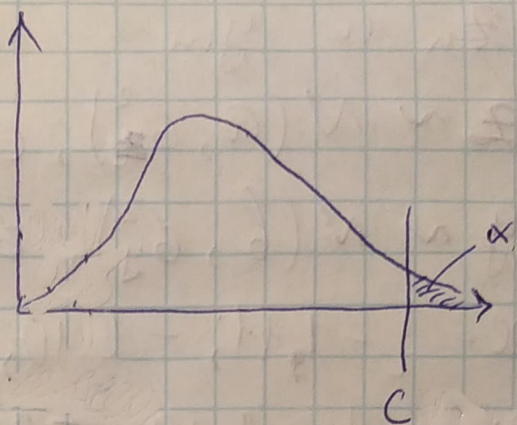
т. д. проверка:

$$\frac{S^2 (n-1)}{\theta_2^2} \sim \chi^2 (n-1)$$

$$\tilde{\Delta} = \frac{S^2 (n-1)}{b}$$

$$G_{\text{кр.}} : \Delta \geq C$$

$$\tilde{\Delta} = \frac{0,2 \cdot 24}{0,1} = 48$$



$$P(\vec{X}_n \in G_{\text{up.}} | H_0) = \alpha$$

$$\alpha = 0,05$$

$$C = \int_{c_2}^{\infty} q_{\chi^2(24)} dt = 0,05$$

$$\underline{C = 37,}$$

$$W = P(\Delta \geq C | H_1) = P\left(\frac{S^2(n-1)}{\theta} \geq C | H_1\right) =$$

$$= P\left(\frac{S^2(n-1)}{\theta_2^2} \geq \frac{C \cdot \theta}{\theta_2^2} | H_1\right)$$

