№ 9 $n = 300 \cdot 2 = 600$

H_0: оба потока однородные

H_1: $\overline{H_0}$

	2	3	4	5	
I	33	43	80	144	300
II	39	35	72	154	300
	72	78	152	298	

$$\Delta_1 = \frac{\left(33 - \frac{72}{600}\cdot 300\right)^2}{\frac{72}{600}\cdot 300} + \frac{\left(43 - \frac{78}{600}\cdot 300\right)^2}{\frac{78}{600}\cdot 300} + \frac{\left(80 - \frac{152}{600}\cdot 300\right)^2}{\frac{152}{600}\cdot 300} + \frac{\left(144 - \frac{298}{600}\cdot 300\right)^2}{\frac{298}{600}\cdot 300} = 1{,}0385$$

$$\Delta_2 = \frac{\left(39 - \frac{72}{600}\cdot 300\right)^2}{\frac{72}{600}\cdot 300} + \frac{\left(35 - \frac{78}{600}\cdot 300\right)^2}{\frac{78}{600}\cdot 300} + \frac{\left(72 - \frac{152}{600}\cdot 300\right)^2}{\frac{152}{600}\cdot 300} + \frac{\left(154 - \frac{298}{600}\cdot 300\right)^2}{\frac{298}{600}\cdot 300} = 1{,}0385$$

$$\tilde{\Delta} = \Delta_1 + \Delta_2 = 2{,}0771$$

$$\Delta \sim \chi^2(1\cdot 3) = \chi^2(3)$$

$$p\text{-value} = \int_{2{,}0771}^{+\infty} q(t)\,dt = \int_{2{,}0771}^{+\infty} \frac{\sqrt{t}\cdot e^{-\frac{t}{2}}}{\sqrt{2\pi}}\,dt = 0{,}56 \Rightarrow$$

$\Rightarrow p\text{-value} > \alpha = 0{,}05 \Rightarrow$ нет оснований отвергать H_0