$$n_{-}s_{3} := 71$$
 $n_{-}s_{7} := 10$
 $n_{-}s_{4} := 33$ $n_{-}s_{8} := 5$

$$P_1 := \frac{n_- s_1}{n} = 0.02$$
 $P_5 := \frac{n_- s_5}{n} = 0.316$ $P_2 := \frac{n_- s_2}{n} = 0.024$ $P_6 := \frac{n_- s_6}{n} = 0.164$

$$P_3 := \frac{n_- s_3}{n} = 0.284$$
 $P_7 := \frac{n_- s_7}{n} = 0.04$

$$P_4 := \frac{n_- s_4}{n} = 0.132$$
 $P_8 := \frac{n_- s_8}{n} = 0.02$

$$\sum_{i=1}^{8} P_i = 1$$

$$aver_x_1 := \frac{X_1 + X_2}{2} = 19.885$$

$$aver_x_5 := \frac{X_5 + X_6}{2} = 20.165$$

aver_x₂ :=
$$\frac{X_2 + X_3}{2}$$
 = 19.955 aver_x₆ := $\frac{X_6 + X_7}{2}$ = 20.235

aver_x₃ :=
$$\frac{X_3 + X_4}{2}$$
 = 20.025 aver_x₇ := $\frac{X_7 + X_8}{2}$ = 20.305

aver_x₄ :=
$$\frac{X_4 + X_5}{2}$$
 = 20.095 aver_x₈ := $\frac{X_8 + X_9}{2}$ = 20.375

Рассчет отдельных значений параметров:

$$Z_i_plus_1(p) := \frac{X_{p+1} - m_x_summ}{\sigma_x} \qquad Z_i(p) := \frac{X_p - m_x_summ}{\sigma_x}$$

$$Z_i_plus_1(1) = -2.079 \quad \Phi(Z_i_plus_1(1)) = -0.481 \quad Z_i(1) = -2.784 \quad \Phi(Z_i(1)) = -0.497$$

$$Z_i_plus_1(2) = -1.375 \quad \Phi(Z_i_plus_1(2)) = -0.415 \quad Z_i(2) = -2.079 \quad \Phi(Z_i(2)) = -0.481$$

$$Z_i_plus_1(3) = -0.671 \quad \Phi(Z_i_plus_1(3)) = -0.249 \quad Z_i(3) = -1.375 \quad \Phi(Z_i(3)) = -0.415$$

$$Z_i_plus_1(4) = 0.034 \quad \Phi(Z_i_plus_1(4)) = 0.013 \quad Z_i(4) = -0.671 \quad \Phi(Z_i(4)) = -0.249$$

$$Z_i_plus_1(5) = 0.738 \quad \Phi(Z_i_plus_1(5)) = 0.27 \quad Z_i(5) = 0.034 \quad \Phi(Z_i(5)) = 0.013$$

$$Z_i_plus_1(6) = 1.442 \quad \Phi(Z_i_plus_1(6)) = 0.425 \quad Z_i(6) = 0.738 \quad \Phi(Z_i(6)) = 0.27$$

$$Z_i_plus_1(7) = 2.147 \quad \Phi(Z_i_plus_1(7)) = 0.484 \quad Z_i(7) = 1.442 \quad \Phi(Z_i(7)) = 0.425$$

$$Z_i_plus_1(8) = 2.851 \quad \Phi(Z_i_plus_1(8)) = 0.498 \quad Z_i(8) = 2.147 \quad \Phi(Z_i(8)) = 0.484$$

$$DDS CBEPKIC C TABDIULEN$$

$$\chi_{\text{square}} := n \cdot \sum_{i=1}^{8} \frac{\left(P_{i} - nP(i)\right)^{2}}{nP(i)} = 49.478$$

$$\begin{split} N_{M} &:= \frac{\left(P_{1} - nP(1)\right)^{2}}{nP(1)} = 9.388 \times 10^{-4} \\ N_{5} &:= \frac{\left(P_{5} - nP(5)\right)^{2}}{nP(5)} = 0.014 \\ N_{2} &:= \frac{\left(P_{2} - nP(2)\right)^{2}}{nP(2)} = 0.027 \\ N_{3} &:= \frac{\left(P_{3} - nP(3)\right)^{2}}{nP(3)} = 0.083 \\ N_{7} &:= \frac{\left(P_{7} - nP(7)\right)^{2}}{nP(7)} = 5.946 \times 10^{-3} \\ N_{8} &:= \frac{\left(P_{8} - nP(8)\right)^{2}}{nP(8)} = 2.868 \times 10^{-3} \end{split}$$

Summa_N :=
$$\sum_{i=1}^{8} N_i = 0.198$$

 $n \cdot Summa N = 49.478$