

Задачи за упражнение!

заг 1

$$f(A, B, C, D) = \overline{(B + C + D)} \cdot \overline{A \cdot \bar{B} \cdot C \cdot D} \cdot \overline{(A + B + C)} + \overline{C + B + A} =$$

$$\cdot \overline{(B + C + D)} + \overline{(A \cdot \bar{B} \cdot C \cdot D)} + \overline{(A + B + C)} + \overline{C \cdot B \cdot A} =$$

$$= B \cdot \bar{C} \cdot \bar{D} + A \cdot \bar{B} \cdot C \cdot D + \bar{A} \cdot B \cdot C + C \cdot \bar{B} \cdot \bar{A}$$

заг 2

$$f(A, B, C, D) = \overline{A \cdot B \cdot C} \cdot \overline{(A + \bar{C} + \bar{D})} \cdot \overline{(A + B + \bar{D})} =$$

$$\cdot \overline{A \cdot B \cdot C} + \overline{(A + \bar{C} + \bar{D})} + \overline{(A + B + \bar{D})} =$$

$$= A \cdot B \cdot C + \bar{A} \cdot C \cdot D + \bar{A} \cdot \bar{B} \cdot D$$

zag 3

$$f(A, B, C, D) = \overline{A+B+D} + \overline{B.C.D} . \overline{B.C.D} =$$

$$= (\overline{A+B+D}) . (\overline{B.C.D} + \overline{B.C.D}) =$$

$$= (\overline{A+B+D}) . (\overline{B.C.D} + \overline{B.C.D}) =$$

$$= (\overline{A+B+D}) (\overline{B.C.D} + \overline{B.C.D}) =$$

$$= \overline{A} . \overline{B} . \overline{C} . \overline{D} + \overline{A} . B . \overline{C} . D + B . \overline{C} . D +$$

~~$B . \overline{C} . D$~~