

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | $$\overbar{B}$$ | $$A+\overbar{B}$$ | $$\overbar{A+\overbar{B}}$$ |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 |



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | A\*B | A\*C | A\*B+A\*C |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 |

C) Pojednostavni



OVO JE 0

$$Z=A∙B+A∙C+\overbar{B}∙A+\overbar{B}∙C+\overbar{C}∙\overbar{B}+\overbar{C}∙C$$

 $Z=A∙B+A∙C+\overbar{B}∙A+\overbar{B}∙C+\overbar{C}∙\overbar{B}=$

B + BPOTEZ JE 1, a 1+C=1, A\*1=A

$$A\left(B+C+\overbar{B}\right)+\overbar{B}\left(C+\overbar{C}\right)=A+\overbar{B}$$

D) $Z=\left(\overbar{A}+B\right)∙B∙\left(̿+\overbar{B}\right)=\left(\overbar{A}+B\right)∙B∙\left(A+\overbar{B}\right)=\left(\overbar{A}∙B+B∙B\right)∙\left(A+\overbar{B}\right)=$

$$\left(\overbar{A}∙B+B\right)∙\left(A+\overbar{B}\right)=\left(B\left(\overbar{A}+1\right)\right)∙\left(A+\overbar{B}\right)=B∙\left(A+\overbar{B}\right)=B∙A+B∙\overbar{B}=B∙A=A∙B$$