Test 1

Problem 1

In Chinese villages it's allowed to have two children in case if your first child is girl. So please find the percentage of boys and girls in Chinese villages

Problem 2

Find the number of vertices and verges of n-dimensional cube and octohedron

Test 2

Problem 1

P is linear operator in \mathbb{R}^n such that $\mathbb{R}^2 = \frac{1}{2}\mathbb{R}$ Can P be diagonalizable?

Problem 2

Find the number of the integer solutions of the equation $x_1+x_2+\cdots+x_n=n$ where $x_i\geq 0$ and $x_i\in Z$