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| **XII Republican Scientific and Practical Conference and Contest of research papers for students of vocational schools and higher education institutions** **“From Alpha to Omega…” (involving International participants)**Section 2. Applied MathematicsSTUDENT ARTICLES |

**SPECIFICS OF INTELLECTUAL PROPERTY IN THE SERVICE INDUSTRY**

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The article examines the content and structure of the financial and economic basis of local government and self-government, and the sources of budget revenues. The main sources of own revenues, in particular income tax, profit tax paid by non-state and communal organizations, property tax and land tax are considered. Based on the results of comparing the volume of tax revenues and the economic base that forms them, a conclusion is made about the insufficient efficiency and sustainability of the existing economic base of local budgets. The main factors limiting the tax independence of local authorities are given.

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***Keywords:*** differential equation, projective plane, paths of differential systems.

**Introduction.** For the first time, the question of individual differences existence in mental (intellectual) abilities was raised by F. Galton. Galton believed that intellectual capabilities are naturally conditioned by features of human biological nature and, accordingly, do not differ in any way from his physical and physiological characteristics. Sensory discriminative sensitivity was considered as an indicator of general intellectual ability.

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Let a″ and a′ be the regression coefficients in the equations with high and low productivity, respectively, and Y″ be the average value of high productivity.

Then the coefficient of fluctuations will be equal: , (2)

where d is the difference between the regression coefficients (a″ - a′).

The obtained results are shown in Table 1.

**Table 1 - Dynamics of market share and profit margin**

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| The company | Profit margin %,with a market share % |
| 10 | 20–30 | 40 | > 40 |
| Producing consumer goods | 11 | 12 | 20 | 25 |
| Producers of manufactured goods | 5 | 16 | 27 | 30 |

The initial data is shown in the figure 1

**Figure 1 – Net profit of «TOYOTA»**

**Conclusion.** Conclusion. Conclusion (2). Conclusion. Conclusion. Conclusion. Conclusion.

Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion. Conclusion.

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