LOGARIFMLARNING AYRIM HAYOTIY MASALALARDAGI TATBIQI

Aybek Jumabayevich Seytov
PhD, Toshkent viloyati Chirchiq davlat pedagogika insituti

Mamatqobil Nurmamatovich Esonturdiyev
Toshkent viloyati Chirchiq davlat pedagogika insituti

Obid Sherqul o'g'li Qarshiboyev
Toshkent viloyati Chirchiq davlat pedagogika insituti

Gulhayo Baxodirovna Quzmanova
Toshkent viloyati Chirchiq davlat pedagogika insituti

ANNOTATSIYA

Ushbu maqolada logarifmlarning fan va texnikada qo’llanilishiga doir bir qator misollar keltirilgan hamda logarifmik shkala va biz ishlatadigan odatiy shkala orasidagi farqlar hayotiy misollar yordamida tushuntirib berilgan. Jumladan, insonning tovushni va yorug’likni qabul qilishi, zilzilaning Rixter shkalasi bo’yicha o’lchanishi, moddalar kislotaliligi yoki ishqoriyligining logarifmik o’lchovi, aholi demografik o’sishida logarifmlarning qo’llanishi kabi masalalar muhokama qilingan. Shuningdek, logarifm orqali aniq natijalar olish, logarifmlarni quyidagi yo’nalishlarda ham tatbiq qilish, iqtisodiy sohada logarifmik hosilalar turli xil mahsulotlarning narxlari o’zgarishini taqqoslash, statistikada logarifmlardan egri chiziqli tarzda ifodalangan ma’lumotlarni chiziqli tarzda ifodalash va elektrik muhandislar logarifmik chizmadan manbadagi kuchlanishni aniqlash bo’yicha hayotiy masalalar o’rganilgan.

Kalit so'zlar: Logarifm, o’nli logarifm, natural logarifm, logarifmik shkalalar, ko’rsatkichli funksiya, logarifmik o’lchov, moddalar kislotaliligi yoki ishqoriyligi, logarifmik chizma.

APPLICATION OF LOGARITHMS IN SOME REAL-LIFE PROBLEMS

Aybek Jumabayevich Seytov
PhD, Chirchik State Pedagogical Institute

Mamatqobil Nurmamatovich Esonturdiyev
Chirchik State Pedagogical Institute

Obid Sherqul o'g'li Qarshiboyev
Chirchik State Pedagogical Institute

ISSN: 2181-1385
Scientific Journal Impact Factor (SJIF) 2020: 4.804

Gulhayo Baxodirovna Quzmanova
Chirchik State Pedagogical Institute

ABSTRACT

This article provides a number of examples of the use of logarithms in science and technology, and also explains the differences between the logarithmic scale and the conventional scale that we use with real-life examples. These include the human perception of sound and light, the measurement of earthquakes on the Richter scale, logarithmic measurements of the acidity or alkalinity of substances, and the use of logarithms for population growth. It is also possible to obtain accurate results by taking logarithms, apply logarithms in the following areas, compare price changes for various products of logarithmic products in the economic domain, linearly represent data from logarithms in statistics, and determine source voltage from logarithmic drawings by electrical engineers who have studied pressing issues.

Keywords: Logarithm, decimal logarithm, natural logarithm, logarithmic scales, exponential function, logarithmic measurement, acidity or alkalinity of substances, logarithmic diagram.