

METODE DE REZOLVARE A ECUAȚILOR FUNCȚIONALE

Metodele de rezolvare a ecuațiilor funcționale sunt de o mare varietate, încât nu se poate vorbi de metode generale, aplicabile oricărei ecuații. Dintre metodele care au un caracter de generalitate și care conduc în anumite cazuri la rezultatul final merită menționate metoda schimbării de funcție, metoda soluțiilor particulare, metoda aproximărilor succesive. În acest material vom încerca să punem în evidență o serie de metode de rezolvare a ecuațiilor funcționale ce apar cu precădere la concursurile și olimpiadele de matematică.

Rezolvarea ecuațiilor funcționale în gimnaziu

Metodele de rezolvare a ecuațiilor funcționale nu sunt încă bine conturate la acest nivel, elevii folosind în special schimbarea de funcție și atribuirea de valori variabilelor. Prezentăm în cele ce urmează câteva probleme de acest tip.

- 1) Să se determine funcția $f: \mathbb{R} \rightarrow \mathbb{R}$ care verifică egalitatea

$$f(3x-1) = x^2 + 2, \quad \forall x \in \mathbb{R}.$$

Soluție.

Facem înlocuirea $3x-1=t$, $x = \frac{t+1}{3}$ și obținem:

$$f(t) = \left(\frac{t+1}{3}\right)^2 + 2 = \frac{t^2 + 2t + 7}{3}.$$

Deci am obținut funcția $f: \mathbb{R} \rightarrow \mathbb{R}$, $f(x) = \frac{x^2 + 2x + 7}{3}$.

- 2) Fie $f: \mathbb{R} \rightarrow \mathbb{R}$, astfel încât $a \cdot f(x) + b \cdot f(3-x) = -3x + 5$, $a, b \in \mathbb{R}$.

a) Determinați $a, b \in \mathbb{R}$, dacă $f(1) = 2$ și $f(2) = 5$.

b) Aflați $f(x)$, oricare ar fi x real cu a și b determinați la a)

Soluție.

$$\text{a)} \quad \begin{array}{l} x=1, \quad a \cdot f(1) + b \cdot f(2) = 2 \\ x=2, \quad a \cdot f(2) + b \cdot f(1) = -1 \end{array} \Rightarrow \begin{cases} 2a + 5b = 2 \\ 5a + 2b = -1 \end{cases} \Rightarrow \begin{cases} a = \frac{-3}{7} \\ b = \frac{4}{7} \end{cases}$$

b) Facem înlocuirea $3-x=t \Rightarrow x=3-t$.

Obținem:

$$a \cdot f(3-t) + b \cdot f(t) = -3(3-t) + 5.$$

Revenim la variabila x și înlocuim pe a și b cu valorile obținute anterior:

$$-\frac{3}{7}f(3-x) + \frac{4}{7}f(x) = 3x - 4.$$

Se ajunge la sistemul de ecuații:

Metode Functionale In Rezolvarea Ecuatii

**Michel Jean Ghermanescu, Mihail
Ghermanescu**



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Enciclopedia marilor descoperiri, invenții, teorii și sisteme din istoria, știința și cultura românească, de-a lungul timpului Ion Văduva-Poenaru, 2002 Rezolvarea ecuațiilor operaționale neliniare în spații Banach Béla Jankó, 1969

Metode numerice pentru rezolvarea ecuațiilor diferențiale Alexandru I. Șchiop, 1975 **Lucrările Seminarului de Matematică Și Fizică Al Institutului Politehnic "Traian Vuia" Timișoara**, 1985-11 **Mathematical Reports**, 1999

Handbook of Splines Gheorghe Micula, Sanda Micula, 2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions together with some applications to various fields emphasizing the significance of the relationship between the general theory and its applications At the same time the goal of the book is also to provide new material on spline function theory as well as a fresh look at old results being written for people interested in research as well as for those who are interested in applications The theory of spline functions and their applications is a relatively recent field of applied mathematics In the last 50 years spline function theory has undergone a wonderful development with many new directions appearing during this time This book has its origins in the wish to adequately describe this development from the notion of spline introduced by I J Schoenberg 1901 1990 in 1946 to the newest recent theories of spline wavelets or spline fractals Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J Analele științifice ale Universității "Al. I. Cuza" din Iași. Serie nouă Universitatea "Al. I. Cuza" din Iași, 1973

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