

# Approximation by polynomials

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## Introductory remarks

These notes comprise the main part of a course on approximation theory presented at Uppsala University in the Fall of 1998, viz. the part on polynomial approximation. The material is mainly classical. As sources I used Cheney [1966], Džjadyk [1977], Korovkin [1959], and Lorentz [1953], as well as papers listed in the bibliography. The emphasis is on explaining the main ideas behind the most important techniques.

The last part of the course was on rational approximation and is not included here. I followed mainly Cheney [1966, Chapter 5, pp. 150–167]. I also discussed Padé approximation briefly, following Cheney [1966, Chapter 5, pp. 173–177] and the introduction in Rudáľy [1998].

I am grateful to Tsehaye Kahsu Araya for remarks to the manuscript.

## 1. Introduction

What is approximation theory? Maybe at the end of this course we will be able to give a mature answer to this question. For the time being, let me just sketch a kind of formal framework for the problems we are going to study.

We have a metric space  $X$  and we want to approximate a given element  $x \in X$  by an element  $a$  of some subset  $A$  of  $X$ . The elements of  $A$  are “nice” or “tractable” and we want to make the distance between  $x$  and  $a$  as small as possible: we call this “to make a good approximation of  $x$  by elements of  $A$ .”

A metric space  $X$  is a set  $X$  together with a metric  $d$ . That  $d$  is a metric means that it is a function  $d: X^2 \rightarrow \mathbf{R}$  which satisfies three properties: it is *positive definite*:

$$(1.1) \quad d(x, y) \geq 0 \text{ for all } x, y \in X \text{ with equality precisely when } x = y;$$

it is *symmetric*:

$$(1.2) \quad d(x, y) = d(y, x) \text{ for all } x, y \in X;$$

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