

# Dispense di Analisi Matematica I (Prima Parte)

## Domenico Candeloro

### Introduzione

Queste dispense rispecchiano a grandi linee il corso di Analisi Matematica I da me tenuto nella Facoltà di Ingegneria del Polo Universitario di Terni. Esse affiancano i libri di testo consigliati, perché ho scelto di trattare alcuni argomenti in maniera alquanto personale: questo è dovuto a due ordini di motivi.

Da una parte, la necessità di fornire una trattazione concisa, e possibilmente unitaria, ha portato a ricondurre per quanto possibile vari concetti diversi ad uno stesso denominatore comune, e a semplificare o addirittura eliminare le dimostrazioni, preferendo a volte fornire piuttosto una nutrita quantità di esempi e controesempi.

Dall'altra parte, si è voluta cogliere l'occasione per introdurre, sia pure in forma concisa e ridotta, alcuni dei temi più attuali, suggeriti dalla presenza sempre più massiccia del computer nella nostra vita. Ho dunque introdotto alcuni cenni alle successioni definite per ricorrenza, alcune formule di approssimazione, una discussione delle rappresentazioni alternative dei numeri reali, e (per la gioia dello studente) ho dedicato una certa cura allo studio delle serie.

Più in dettaglio, gli argomenti trattati comprendono:

nel Capitolo 1, i concetti di "relazione", con i vari casi particolari di "ordinamento", "equivalenza", "funzione", ed alcune conseguenze nella teoria degli insiemi, come il concetto di cardinalità, esaminata più in particolare nell'ambito degli insiemi che maggiormente ci interesseranno durante il corso; un discorso a parte è stato fatto per le diverse rappresentazioni dei numeri reali, e dell'insieme di Cantor, visto sia come un insieme "strano" di numeri reali, sia come esempio di insieme risultante dalla rappresentazione ternaria, sia come prototipo di insieme frattale;

nel Capitolo 2, il calcolo combinatorio, introdotto in maniera formale, ma discusso anche nei suoi aspetti più tecnici;

nel Capitolo 3, il concetto di "successione", e vari esempi che di tali oggetti si pos-

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