Contents

Foreword

Introduction Efraim Fischbein	1
1. Epistemology and Psychology of Mathematics Education Gérard Vergnaud	14
2. Psychological Aspects of Learning Early Arithmetic Jacques C. Bergeron and Nicolas Herscovics	31
3. Language and Mathematics Colette Laborde	53
4. Psychological Aspects of Learning Geometry Rina Hershkowitz	70
5. Cognitive Processes Involved in Learning School Algebra Carolyn Kieran	96
6. Advanced Mathematical Thinking Tommy Dreyfus	113
7. Future Perspectives for Research in the Psychology of Mathematics Education Nicolas Balacheff	135
References	149