Fermat's Last Theorem started. Theory of ideal numbers, Fermat's Lust 2 months comparable to Lobatchewsky's, Wave Kummer's invention comparable to Lobatchewsky's, Wave Kummer's incentions. Big of body, mind, and heart, surface in four dimensions. Big of body, mind, and heart, surface in jour aimed of Gauss. First expositor of Galois,
Dedekind, last pupil of Gauss. Turns to mathematics Dedekina, assi paper of Turns to mathematics. Dede.

Early interest in science. His creation of the the Early ameres an entinuity. His creation of the theory of kind's work on continuity. ideals.

## 28. THE LAST UNIVERSALIST

POINCARÉ (1854-1912)

Poincaré's universality and methods. Childhood setbacks Seized by mathematics. Keeps his sanity in Franco-Prus sian war. Starts as mining engineer. First great work Automorphic functions. 'The keys of the algebraic cosmos The problem of n bodies. Is Finland civilized? Poincare new methods in celestial mechanics. Cosmogony. Ho mathematical discoveries are made. Poincaré's accoun Forebodings and premature death.

## 29. PARADISE LOST?

Old foes with new faces. Rotting creeds. Cantor's arti CANTOR (1845-1918) inheritance and father-fixation. Escape, but too late. revolutionary work gets him nowhere. Academic pettin Disastrous consequences of 'safety first'. An epochal res Paradox or truth? Infinite existence of transcendent Aggressiveness advances, timidity retires. Further spe cular claims. Two types of mathematicians. Inst Counter-revolution. The battle grows fiercer. Cursing enemy. Universal loss of temper. Where stands me matics today? And where will it stand tomorrow? Invic

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