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SYNOPSIS

385 The Olympiad Corner: No. 193 *R. E. Woodrow*

Featuring the problems of the 18th Austrian-Polish Mathematics Competition; the problems of the 9th Iberoamerican Mathematical Olympiad; and the problems of the IX, X and XI Grade of the Georgian Mathematical Olympiad, Final Round for 1995. Also featuring solutions to selected problems from the Dutch Mathematical Olympiad, Second Round, 1993; the USAMO 1997; the 3rd Ukrainian Mathematical Olympiad, March 26–27, 1994; the Mock Test of the Hong Kong Committee for the IMO 1994; and the 45th Mathematical Olympiad in Poland, Final Round.

396 Book Review *Andy Liu*

Dissections : Plane & Fancy, by *Greg N. Frederickson*
Reviewed by *Andy Liu*, University of Alberta.

398 The Skoliad Corner: No. 33 *R. E. Woodrow*

Featuring the problems of the British Columbia Colleges Senior High School Mathematics Contest, Preliminary Round, 1998; and solutions to the problems of the Fifteenth British Columbia Colleges Junior High School Mathematics Contest, Preliminary Round, 1998.

406 Mathematical Mayhem

406 Shreads and Slices

406 An Algebraic Relation with a Geometric Twist
by *Cyrus Hsia*

410 Mayhem Problems

410 High School Problems **H245–248**

411 Advanced Problems **A221–224**

411 Challenge Board Problems **C81–82**

412 IMO Report, by *Adrian Chan*

413 Bogus Arguments and Arcane Identities, by *Ravi Vakil*

415 The Fibonacci Sequence, by *Wai Ling Yee*

421 The J. I. R. McKnight Problems Contest 1984

422 Swedish Mathematics Olympiad 1988

424 Problems: 2374, 2376–2387

This month's "free sample" is:

2382. *Proposed by Mohammed Aassila, Université Louis Pasteur, Strasbourg, France.*

If $\triangle ABC$ has inradius r and circumradius R , show that

$$\cos^2 \left(\frac{B - C}{2} \right) \geq \frac{2r}{R}.$$

427 Solutions: 1637, 2257, 2260–2263, 2265–2266, 2268,
2270–2275, 2277–2278