REFERENCE BOOKS

Ball, W. W. R., Mathematical Recreations and Essays, rev. by H. S. M.
Coxeter, A paperback, published by The Macmillan Company, New York,
1962.

Beck, A., and Bleicher, M. N., and Crowe, D. W., Excursions into Mathe-

Coxeter, H. S. M., Regular Polytopes, Second Ed., Macmillan Company,


Fejes-Tóth, L., Regular Figures, International Series of Monographs in Pure

Jacobs, Harold R., Mathematics A Human Endeavor, W. H. Freeman and

Stover, Donald W., Mosaics, Houghton Mifflin Mathematics Enrichment

Wenninger, Magnus J., Polyhedron Models for the Classroom, National
Council of Teachers of Mathematics, Supplementary Publication, Wash-
dington, D. C., 1968.

[Continued from page 135.]

SPECIAL ADVANCED PROBLEM


Prove that there is a sequence of integers \( n_1 < n_2 < \cdots \) satisfying

\[
\frac{\sigma(n_k)}{n_k} \to \infty \quad \text{and} \quad \frac{\sigma(\sigma(n_k))}{\sigma(n_k)} \to 1,
\]

where

\[
(n) = \sum_{d|n} d
\]

(the sum of the integer divisors of \( n \).)

[From Conference on NUMBER THEORY, March 24-27, Washington State
University, Pullman, Washington.]