

# Pacific Journal of Mathematics

**CORRECTIONS TO: "FIXED-POINT THEOREMS FOR  
MAPPINGS WITH A CONTRACTIVE ITERATE"**

BARADA K. RAY AND BILLY E. RHOADES

# ERRATA

Corrections to

## ISOTOXAL TILINGS

B. GRÜNBAUM AND G. C. SHEPHARD

Volume 76 (1978), 407-430

The address at the end (page 430) should read

UNIVERSITY OF EAST ANGLIA  
NORWICH NR4 7TJ, ENGLAND

Corrections to

## FIXED POINT THEOREMS FOR MAPPINGS WITH A CONTRACTIVE ITERATE, CORRECTIONS

BARADA K. RAY AND B. E. RHOADES

Volume 71 (1977), 517-520

Professor S. Kasahara has provided us with the following counterexample to Theorem 1 of [1]. Let  $X = \{0, 1\}$ ,  $d(x, y) = |y - x|$ ,  $T_1 = T_2 = T$  defined by  $T(0) = 1$ ,  $T(1) = 0$ , and choose  $n(x) = m(x)$  with  $n(0) = 2$ ,  $n(1) = 1$ . Then  $d(T^{n(x)}(x), T^{m(y)}(y)) = 0$  for each  $x, y \in X$ , but  $T$  has no fixed points

The conclusion of Theorem 1 should read: There exists a unique point  $a$  satisfying  $T_1^{n(a)}(a) = T_2^{m(a)}(a)$ . The conclusion of Corollary 2 needs to be modified accordingly. Theorem 2 and Remark 2 should be deleted.

### REFERENCES

1. Barada K. Ray and B. E. Rhoades, *Fixed point theorems for mappings with a contractive iterate*, Pacific J. Math., **71** (1977), 517-520.

REGIONAL ENGINEERING COLLEGE  
DURGAPUR, 713209, INDIA  
AND  
INDIANA UNIVERSITY  
BLOOMINGTON, IN 47401

# PACIFIC JOURNAL OF MATHEMATICS

## EDITORS

RICHARD ARENS (Managing Editor)

University of California  
Los Angeles, CA 90024

CHARLES W. CURTIS

University of Oregon  
Eugene, OR 97403

C. C. MOORE

University of California  
Berkeley, CA 94720

J. DUGUNDJI

Department of Mathematics  
University of Southern California  
Los Angeles, CA 90007

R. FINN and J. MILGRAM

Stanford University  
Stanford, CA 94305

## ASSOCIATE EDITORS

E. F. BECKENBACH

B. H. NEUMANN

F. WOLF

K. YOSHIDA

## SUPPORTING INSTITUTIONS

UNIVERSITY OF BRITISH COLUMBIA  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
UNIVERSITY OF CALIFORNIA  
MONTANA STATE UNIVERSITY  
UNIVERSITY OF NEVADA, RENO  
NEW MEXICO STATE UNIVERSITY  
OREGON STATE UNIVERSITY  
UNIVERSITY OF OREGON

UNIVERSITY OF SOUTHERN CALIFORNIA  
STANFORD UNIVERSITY  
UNIVERSITY OF HAWAII  
UNIVERSITY OF TOKYO  
UNIVERSITY OF UTAH  
WASHINGTON STATE UNIVERSITY  
UNIVERSITY OF WASHINGTON

---

The Supporting Institutions listed above contribute to the cost of publication of this Journal, but they are not owners or publishers and have no responsibility for its content or policies.

---

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be in typed form or offset-reproduced, (not dittoed), double spaced with large margins. Please do not use built up fractions in the text of the manuscript. However, you may use them in the displayed equations. Underline Greek letters in red, German in green, and script in blue. The first paragraph or two must be capable of being used separately as a synopsis of the entire paper. Items of the bibliography should not be cited there unless absolutely necessary, in which case they must be identified by author and journal, rather than by item number. Manuscripts, in triplicate, may be sent to any one of the editors. Please classify according to the scheme of Math. Reviews, Index to Vol. 39. All other communications should be addressed to the managing editor, or Elaine Barth, University of California, Los Angeles, California, 90024.

50 reprints to each author are provided free for each article, only if page charges have been substantially paid. Additional copies may be obtained at cost in multiples of 50.

---

The *Pacific Journal of Mathematics* is issued monthly as of January 1966. Regular subscription rate: \$72.00 a year (6 Vols., 12 issues). Special rate: \$36.00 a year to individual members of supporting institutions.

Subscriptions, orders for numbers issued in the last three calendar years, and changes of address should be sent to Pacific Journal of Mathematics, P.O. Box 969, Carmel Valley, CA 93924, U.S.A. Older back numbers obtainable from Kraus Periodicals Co., Route 100, Millwood, NY 10546.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS, A NON-PROFIT CORPORATION

Printed at Kokusai Bunken Insatsusha (International Academic Printing Co., Ltd.).  
8-8, 3-chome, Takadanobaba, Shinjuku-ku, Tokyo 160, Japan.

Copyright © 1978 by Pacific Journal of Mathematics  
Manufactured and first issued in Japan

David R. Adams, <i>Quasi-additivity and sets of finite <math>L^p</math>-capacity</i> .....	283
George M. Bergman and Warren Dicks, <i>Universal derivations and universal ring constructions</i> .....	293
Robert F. Brown, <i>Addendum to: "Fixed points of automorphisms of compact Lie groups"</i> .....	339
Eugene Frank Cornelius, Jr., <i>Characterization of a class of torsion free groups in terms of endomorphisms</i> .....	341
Andres del Junco, <i>A simple measure-preserving transformation with trivial centralizer</i> .....	357
Allan Lee Edmonds, <i>Extending a branched covering over a handle</i> .....	363
Sjur Flam, <i>A characterizatton of <math>\mathbf{R}^2</math> by the concept of mild convexity</i> .....	371
Claus Gerhardt, <i><math>L^p</math>-estimates for solutions to the instationary Navier-Stokes equations in dimension two</i> .....	375
Kensaku Gomi, <i>Finite groups with a standard subgroup isomorphic to <math>\text{PSU}(4, 2)</math></i> .....	399
E. E. Guerin, <i>A convolution related to Golomb's root function</i> .....	463
H. B. Hamilton, <i>Modularity of the congruence lattice of a commutative cancellative semigroup</i> .....	469
Stephen J. Haris, <i>Complete reducibility of admissible representations over function fields</i> .....	487
Shigeru Itoh and Wataru Takahashi, <i>The common fixed point theory of singlevalued mappings and multivalued mappings</i> .....	493
James E. Joseph, <i>Multifunctions and graphs</i> .....	509
Bruce Magurn, <i>Images of <math>SK_1 ZG</math></i> .....	531
Arnold Koster Pizer, <i>A note on a conjecture of Hecke</i> .....	541
Marlon C. Rayburn, <i>Maps and <math>h</math>-normal spaces</i> .....	549
Barada K. Ray and Billy E. Rhoades, <i>Corrections to: "Fixed-point theorems for mappings with a contractive iterate"</i> .....	563
Charles Irvin Vinsonhaler, <i>Corrections to: "Torsion free abelian groups quasiprojective over their endomorphism rings. II"</i> .....	564