

P R O B L È M E S

P 688, R 2. The announced solution has already appeared in print ⁽¹⁾.

XXI. 2, p. 245, et XXIII.2, p. 325.

⁽¹⁾ Teodor Przymusiński, *On σ -discrete coverings consisting of connected sets*, this fascicle, p. 237-239.

P 689, R 3. The positive solution of P 688 (see above) implies that of P 689 (see P 689, R 1), thus giving also an indirect proof to the problem.

XXI.2, p. 245, XXIII.2, p. 325, et XXIV.2, p. 285.

P 695, R 2. The answer is negative ⁽²⁾.

XXII.1, p. 158, et XXV.2, p. 325.

⁽²⁾ Colin C. Graham, *Two remarks on the Fourier-Stieltjes transforms of continuous measures*, this fascicle, p. 297-299.

P 707, R 1. M. Rajagopalan has informed us that he and V. Kannan have solved the problem: the space X is not homogeneous. The solution is in preparation to this journal.

XXII. 2, p. 242.

Letter of February 16, 1972.

P 711, R 3. Une nouvelle (troisième) solution a été fournie par Colin C. Graham ⁽²⁾.

XXII.2, p. 275 et 337, et XXVII.1, p. 162.

J. PŁONKA (WROCLAW)

P 829. Formulé dans la communication *On the arity of idempotent reduct of Abelian groups*.

Ce fascicule, p. 176.

ROBERT C. BRIGGS, III (COOKEVILLE, TENNESSEE)

P 830 et P 831. Formulés dans la communication *Preparacompactness and \aleph -preparacompactness in q -spaces*.

Ce fascicule, p. 230 et 235.

J. W. HINRICHSSEN (AUBURN, ALABAMA)

P 832. Formulé dans la communication *Irreducible continua of higher dimension*.

Ce fascicule, p. 253.

SAM B. NADLER, JR. (NEW ORLEANS, LOUISIANA)

P 833 - P 842. Formulés dans la communication *Some problems concerning stability of fixed points*.

Ce fascicule, p. 264, 265, 267 et 268.

W. NARKIEWICZ (WROCLAW)

P 843. Formulé dans la communication *A note on numbers with good factorization properties*.

Ce fascicule, p. 276.

JAN ŚLIWA (WROCLAW)

P 844. Formulé dans la communication *On distribution of values of $\sigma(n)$ in residue classes*.

Ce fascicule, p. 290.

G. BROWN AND W. MORAN (LIVERPOOL)

P 845. Formulé dans la communication *Translation and power independence for Bernoulli convolutions*.

Ce fascicule, p. 303.

B. KNASTER (WROCLAW)

P 846. Is it true that each closed subset of an absolute retract X is the set of fixed points for a mapping of X into itself? The answer is positive if X is a cube or if X is Peano and the closed subset is totally disconnected ⁽³⁾.

New Scottish Book, Probl. 868, 1. III. 1972.

⁽³⁾ Cf. Lewis E. Ward, *Fixed point sets*, Notices of the American Mathematical Society 19 (1972), p. A-205.

K. BORSUK (WARSZAWA)

P 847. Given a locally connected continuum X which lies in the 3-dimensional euclidean space E^3 and cuts E^3 , does there exist a continuous and fixed-point-free mapping of X into itself?

New Scottish Book, Probl. 871, 25. IV. 1972.

P 848. Is it true that each dendroid has the trivial shape? Is it true that unions of finitely many dendroids have plane shape (i.e., the shape of compacta in the plane)?

New Scottish Book, Probl. 872, 26. IV. 1972.

W. ŻELAZKO (WARSZAWA)

P 849. Let A be a commutative complex Banach algebra with unit and let $x_1, \dots, x_n \in A$ with $\inf_{|z|=1} |x_i z| > 0$. Is it true that there is a commutative Banach algebra B and a unital isomorphism φ of A into B such that the elements $\varphi(x_1), \dots, \varphi(x_n)$ generate in B the whole of B as an ideal?

New Scottish Book, Probl. 874, 28. IV. 1972.
