P R O B L È M E S

P 629, R 1. The answer is no. The results of Comer, Olin and Pierce[1] yield examples of compact spaces X such that $X^2 \approx X^3$ and X non $\approx X^2$, where $\approx$ denotes homeomorphism.

XIX.1, p. 181,   Letter of Jan Mycielski, September 1976.

[1] See P. Olin, *Free products of elementary types of BA's*, Mathematica Scandinavica 38 (1976), p. 5-23.

P 884, R 1. The problem has been solved. Berrondo has constructed[2] an example of a non-algebraically closed field complete with respect to two independent valuations.

XXIX.1, p. 159.

[2] F. Berrondo, *Un corps non algébriquement clos complet pour deux valuations indépendantes*, Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Séries A et B, 282 (1976), p. 675-677.

P 949, R 1. The problem has been solved [3].

XXXIII.2, p. 305.

[3] M. Kanter, *Completion measurable linear functionals on a probability space*, this fascicle, p. 277-304; see Theorem 3.1.

P 956 et **P 957, R 1.** The answer to both problems is negative [4].

XXXIV.1, p. 144.

[4] T. Maćkowiak, *Some examples of irreducibly confluent mappings*, this fascicle, p. 193-196.

R. FRANKIEWICZ (KATOWICE)

P 1021. Formulé dans la communication *Assertion* Q *distinguishes topologically* ω^* *and* $\mathfrak{m}^*$ *when* $\mathfrak{m}$ *regular and* $\mathfrak{m} > \omega$.

Ce fascicule, p. 175.

L. D. LOVELAND **and** J. E. VALENTINE (LOGAN, UTAH)

P 1022. Formulé dans la communication *Generalized midset properties characterize geodesic circles and intervals.*

Ce fascicule, p. 240

ZBIGNIEW GRANDE (ELBLĄG)

P 1023. Formulé dans la communication *Sur les suites de fonctions approximativement continues et continues presque partout.*

Ce fascicule, p. 262

Z. JUREK **and** K. URBANIK (WROCŁAW)

P 1024. Formulé dans la communication *Remarks on stable measures on Banach spaces.*

Ce fascicule, p. 275.

W. WIĘSŁAW (WROCŁAW)

P 1025. Can a non-algebraically closed metrizable field be complete with respect to two inequivalent locally bounded metrizable field topologies, i.e. can Schmidt's result ([5]) be extended from norms to pseudonorms? It cannot if norms are replaced by arbitrary minimal topologies (see P 884, R 1 above), but it remains valid for maximally complete valuations. In fact, Vámos has proved ([6]) that for a field K the following conditions are equivalent:

(i) K is algebraically closed and $\operatorname{card}(K) = \operatorname{card}(K)^{\aleph_0}$;

(ii) K is maximally complete with respect to two independent valuations;

(iii) there exist independent valuations v_1 and v_2 such that v_1 is maximal on K and K_{v_2} is Henselian.

([5]) F. K. Schmidt, *Mehrfach perfekte Körper*, Mathematische Annalen 108 (1933), p. 287-302. Compare also W. Więsław, *On topological fields*, this journal 29 (1974), p. 119-146, especially p. 123.

([6]) P. Vámos, *Multiply maximally complete fields*, Journal of the London Mathematical Society 12 (1975), p. 103-111.