

# Pacific Journal of Mathematics

**CORRECTION TO: "A CHARACTERISTIC SUBGROUP OF A  
GROUP OF ODD ORDER"**

ZVI ARAD AND GEORGE ISAAC GLAUBERMAN

Correction to

## SUBORDINATION THEOREMS FOR SOME CLASSES OF STARLIKE FUNCTIONS

ROGER BARNARD AND JOHN L. LEWIS

Volume 56 (1975), 333-366

5 lines from bottom of page 335 the following theorem should be inserted:

**THEOREM 2.** *Let  $\alpha$ ,  $d$ ,  $M$ , and  $F$  be as in Theorem 1. Let  $F^*(\cdot, d, M) = \lim_{\alpha \rightarrow 0} F(\cdot, \alpha, d, M)$ . Then  $F^* \in S^*(d, M)$  has the following properties:*

Correction to

## A CHARACTERISTIC SUBGROUP OF A GROUP OF ODD ORDER

Z. ARAD (ARDINAST) AND G. GLAUBERMAN

Volume 56 (1975), 305-319

Part of the proof of part (b) of Lemma 1 on page 308 is incorrect and should be replaced by the following argument:

Since  $\alpha$  generates  $F$  over  $Z_p$ , it follows that  $1, \alpha, \alpha^2, \dots, \alpha^{m-1}$  forms a basis of  $F$  over  $Z_p$ . Now, the trace map from  $F$  to  $E$  is onto and is given by  $T(x) = x + x^{p^k}$ . Therefore, it follows that

$$T(\alpha^i) = \alpha^i + \alpha^{ip^k} = \alpha^i + \alpha^{-i} \quad \text{for } i = 0, 1, \dots, m-1,$$

and that these elements span  $E$  over  $Z_p$ , although they are not linearly independent.

Take  $f \in N$  and  $w, w' \in W$  as in (b). If  $w = 0$ , then  $f(w, w') = 0$  as desired. Assume that  $w \neq 0$ . Then there exists  $\beta \in E$  such that  $w' = w\beta$ . Take  $b_0, b_1, \dots, b_{m-1} \in Z_p$  such that

$$\sum_{0 \leq i \leq m-1} b_i(\alpha^i + \alpha^{-i}) = \beta.$$

The rest of the argument follows as before.

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