

# Pacific Journal of Mathematics

**CORRECTION TO: “PLANE CURVES AND REMOVABLE  
SETS”**

ROBERT P. KAUFMAN

*Proof of Lemma 1a.* Let  $T_t$  be the group of  $*$ -automorphisms generated by  $A$ . There exists a group of homeomorphisms of  $[0, 1]$ ,  $h(x, t)$ , such that

$$(T_t f)(x) = f(h(x, t)),$$

for  $f$  in  $C[0, 1]$ ,  $x$  in  $[0, 1]$   $t$  real.

Suppose  $f$  is in  $D(A)$ . Let  $f_x(t) \equiv (T_t f)(x)$ ,  $h_x(t) \equiv h(x, t)$ . Note that

$$(*) \quad f_x = f \circ h_x.$$

Since  $f$  is in  $D(A)$ ,  $f'_x(t)$  exists, and equals  $(-Af)(h(x, t))$ , for all  $x, t$ . Also  $h'_x(t) = -p(h(x, t))$ , since

$$p(h(x, t)) = T_t A f_1(x) = -\frac{\partial}{\partial t} T_t f_1(x) = -\frac{\partial}{\partial t} h(x, t).$$

If  $p(x) \neq 0$ , then by the inverse function theorem,  $h_x^{-1}$  exists, and is differentiable, in a neighborhood of  $h_x(0)$ . Thus  $f = f_x \circ h_x^{-1}$  is differentiable, in a neighborhood of  $h_x(0)$ . Differentiating both sides of  $(*)$  at  $t = 0$ , gives  $(Af)(h(x, 0)) = f'(h(x, 0))p(h(x, 0))$  or  $(Af)(x) = p(x)f'(x)$ , as desired.

## ERRATA CORRECTION TO PLANE CURVES AND REMOVABLE SETS

R. KAUFMAN

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In Theorem 2, p. 409,

$\limsup \omega(h)/\psi(h)$  should be  $\liminf \omega(h)/\psi(h)$ .

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