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

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

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

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In Theorem 2, p. 409,
$\limsup \omega(h)/\psi(h)$ should be $\liminf \omega(h)/\psi(h)$.