12. <u>Proof of Theorem 5</u>. Assertion I of the theorem is an immediate consequence of the Eneström-Kakeya theorem which, in view of (6.12), may be applied to the second form of $Q_m(w)$ in (4.7).

Returning to the variable

$$z = R_m w$$
,

we may rewrite (4.7) as

$$s_{m}(z) = a_{m} z^{m} Q_{m}(z/R_{m}) ;$$

hence assertions II and III (ii) follow from Lemma ll.l. With regard to B(h) we may take it to be any positive quantity satisfying (2.43) and

$$B(h) > max\{B_0, \tilde{B}_0\}$$
.

Assertion III (i) of Theorem 5 follows from Hurwitz' theorem and the uniform convergence $s_m(z) + E_{1/\lambda}(z)$ ($|z| \le B$).

13. Proof of Theorem 1. By (8.28) of Lemma 8.1,

(13.1)
$$\left(\frac{2}{\pi\lambda m}\right)^{1/2} Q_{m}\left(\frac{1}{1-\left(\frac{2}{\lambda m}\right)^{1/2}\zeta}\right) \rightarrow e^{\zeta^{2}}\left(1-\frac{2}{\pi^{1/2}}\int_{0}^{\zeta}e^{-t^{2}}dt\right)$$
$$= e^{\zeta^{2}}\operatorname{erfc}(\zeta) \qquad (m + +\infty)$$

uniformly on every compact subset of the ζ -plane and, in particular, in the disk

$$|\zeta| \leq t \qquad (t > 0)$$

Define $\zeta_{1,m}$ by the relation