

(4) Obtain Taylor's series expansion for the following functions around the indicated points, where the function is multivalued give the results for all possible branches

(a)  $(1+z+z^2)^{-1}$ ,  $z_0=0$ ,  $z_0=1-i$ .

(b)  $z^{1/2}$ ,  $z_0=i$

(c)  $\log [iz + (1-z^2)^{1/2}]$ ,  $z_0=0, i$

(5) Let  $f(z)$  be analytic in a domain which includes the unit circle  $C: |z|=1$ , and its interior.

(a) Show that for any  $z$  inside  $C$

$$f(z) = \frac{1}{2\pi i} \oint_C f(\zeta) \left[ \frac{1}{\zeta-z} - \frac{1}{\zeta-1/z^*} \right] d\zeta$$

(b) Show that the formula in (a) can be written

$$f(re^{i\theta}) = \frac{1}{2\pi} \int_0^{2\pi} f(e^{i\phi}) \left[ \frac{1-r^2}{1-2r\cos(\phi-\theta)+r^2} \right] d\phi$$

(c) If  $\operatorname{Re} f(\zeta) = u(1, \phi)$ ; then show that  $u(r, \theta)$  (harmonic inside  $C$ ) is given by

$$u(r, \theta) = \frac{1}{2\pi} \int_0^{2\pi} u(1, \phi) \left[ \frac{1-r^2}{1-2r\cos(\phi-\theta)+r^2} \right] d\phi$$

with  $\Delta u = \partial_r^2 u + \frac{1}{r} \partial_r u + \frac{1}{r^2} \partial_\theta^2 u = 0$ .

(Note: can show  $u(r, \theta) \xrightarrow{r \rightarrow 1} u(1, \theta)$ , so we solved Laplace's eqn. on a disk)

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