Solved Exercise Problems
of Mathematical Physics , H K Das
Using Cauchy's Integral Formula.

EXERCISE 7.6

Evaluate the following

1. $\int_C \frac{1}{z-a}\,dz$, where C is a simple closed curve and the point $z = a$ is

    (i) outside C;   (ii) inside C.   Ans. (i) 0

2. $\int_C \frac{e^z}{z-1}\,dz$, where C is the circle $|z| = 2$.   Ans. $2\pi i e$

3. $\int_C \frac{\cos \pi z}{z-1}\,dz$, where C is the circle $|z| = 3$.   Ans. $-2\pi i$

4. $\int_C \frac{\cos \pi z^2}{(z-1)(z-2)}\,dz$, where C is the circle $|z| = 3$.   Ans. $4\pi i$

5. $\int_C \frac{e^{z}}{(z+2)^2}\,dz$, where C is the circle $|z| = 3$.   Ans.

6. (a) $\int_C \frac{e^{2z}}{(z+1)^4}\,dz$, where C is the circle $|z-1| = 2$.   (A.M.I.E.T.E., Summer 2002) Ans.

    (b) $\int_C \frac{3z^2 + z}{z^2 - 1}\,dz$, where c is the circle $|z-1| = 1$ (A.M.I.E.T.E., Winter 2001) Ans.

MATHEMATICAL PHYSICS

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S. CHAND

H K Das

Hk Dass Multiple Integral Problems With Solution

Camilla Rothe

Hk Dass Multiple Integral Problems With Solution:

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Multiple Integrals in the Calculus of Variations Charles Bradfield Morrey Jr.,2009-11-03 From the reviews the book contains a wealth of material essential to the researcher concerned with multiple integral variational problems and with elliptic partial differential equations The book not only reports the researches of the author but also the contributions of his contemporaries in the same and related fields The book undoubtedly will become a standard reference for researchers in these areas The book is addressed mainly to mature mathematical analysts However any student of analysis will be greatly rewarded by a careful study of this book M R Hestenes in Journal of Optimization Theory and Applications The work intertwines in masterly fashion results of classical analysis topology and the theory of manifolds and thus presents a comprehensive treatise of the theory of multiple integral variational problems L Schmetterer in Monatshefte f r Mathematik The book is very clearly exposed and contains the last modern theory in this domain A comprehensive bibliography ends the book M Coroi Nedeleu in Revue Roumaine de Math matiques Pures et Appliqu es   The Lancet ,1887   *Information Processing* ,1960   *Proceedings* ,1960   *Science Abstracts* ,1985   **Electrical & Electronics Abstracts** ,1997   Proceedings of the IRE. Institute of Radio Engineers,1955   **Journal of Hydronautics** ,1971

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