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|  | | | **SRM Institute of Science and Technology**  **Kattankulathur** | |  |
| **DEPARTMENT OF MEATHEMATICS** | |
| **18MAB102T ADVANCED CALCULUS & COMPLEX ANALYSIS** | |
| **UNIT -5 Cauchy Integral Formula**  **Tutorial Sheet -1** | |
| **Sl.No.** | | | **Questions** | | **Answer** |
| **Part – A** | | | | | |
| **1** | | **Evaluate where c is a circle |z|=2.** | | 2πie | |
| **2** | | **Evaluate where c is a circle |z-1|=1** | | 4πi | |
| **3** | | **Evaluate where c is a circle |z|=2** | |  | |
| **4** | | **Evaluate where c is a circle |z+i|=2** | |  | |
| **5** | | **Evaluate where c is a circle |z|=3.** | | 4πi | |
| **6** | | **Evaluate where c is the circle |z|=4** | |  | |
| **Part – B** | | | | | |
| **7** | **Using Cauchy integral formula evaluate where c is a circle |z|=2.** | | |  | |
| **8** | **Evaluate over the circle |z-2|=1** | | | πi | |
| **9** | **Evaluate where c is the circle |z|=4** | | | -2πi | |
| **10** | **Evaluate the integral where c is an ellipse** | | | 2πi | |
|  |  | | |  | |