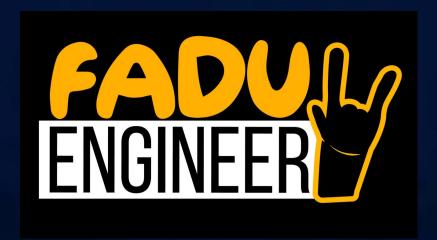
COMPLEX INTEGRATION

Important Question Bank

Designed By

SAURABH DAHIVADKAR



Important guestions

- ① Evaluate: $\int (y-x-3x^2i)dz$, where c is a Straight line from z=0 to z=1+i.
- ② Evaluate: $\int (z^2 2z + i) dz$, where C is the circle of $x^2 + y^2 = 2$.
- is the circle of $x^2+y^2=2$.

 (3) Evaluate: $\int_{0}^{1+2i} z^2 dz$ along the curve $\int_{0}^{2} 2x^2 = y$.
- 9 Evaluate: $\int z^2 dz$ from P(1,1) to g(2,4) where,
 - (i) c is curve y=x2.
 - (i) C is the line y=3x-2
 - (ii) C is the curve x=t, y=t?

Designed by SAURABH DAHIVADKAR

- 5 Evaluate: It z dz, along 1) line y=x, integral independent of the path? (6) Evaluate: $\int (z-z^2)dz$, where c is the upper half of circle |z|=1. what is the value of the integral for the lower half of Same circle. DEvaluate: Sizidz, where c is the left half of unit circle 121=1 from Z = - i +0 Z = i.

 Designed by
 SAURABH DAHIVADKAR
- ® Evaluate: $\int \frac{2z+3}{z} dz$, where c is
 - 1) upper half of circle 121=2.
 - (i) Lower half of circle 121=2.
 - (iii) whole circle in anticlockwise.