2nd Internal Exam-CC13

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Derive the polar form of Cauchy-Reimann equations

Your answer

Evaluate
$$\oint_C \frac{5z^2 - 3z + 2}{(z - 1)^3} dz$$
, where C is any simple closed curve enclosing $z = 1$

Your answer



A WN

If
$$f(z) = u + jv$$
 is analytic and $u - v = (x - y)(x^2 + 4xy + y^2)$, find $f(z)$ in terms of z.

Your answer

Evaluate
$$\int_{0}^{\infty} \frac{dx}{x^2 + 1}$$
 by contour integration in the complex plane.

Your answer

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