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GATE 2023-EC

EE23BTECH1205 - Avani Chouhan*

Question: 14

The value of the contour integral, $\oint_C \frac{z+2}{z^2+2z+2} dz$, where the contour C is $\{z: |z+1-\frac{3}{2}i|=1\}$, taken in the counter clockwise direction, is

- (*A*) $-\pi(1+j)$
- $(B) \quad \pi(1+j)$
- (*C*) $\pi(1-j)$
- $(D) \pi(1-j)$

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Solution: