

GATE 2023 EC-14

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 $\pi(1 + j)$
- C $\pi(1 - j)$
- D $-\pi(1 - j)$

Solution: