

공업수학 2: Homework #6

Due to: 2021-11-12 (금)

Computer the following complex integrals:

1. $\oint_C \frac{7z-6}{z^2-2z} dz$, when C is a simple closed path enclosing two singular points $z = 0$ and 2 .

2. $\oint_C \frac{z^2-4}{z^2+4} dz$, when $C: |z-1| = 2$.

3. $\oint_C \frac{\cos z}{2z} dz$, when $C: |z| = 1/2$.

4. $\oint_C \frac{e^{2z}}{z(z-j2)^2} dz$, when C consists of $|z-j| = 3$ (CCW direction) and $|z| = 1$ (CW direction).

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