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Problem 4.6

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Problem 4.6

0.0/2.0 points (ungraded)

Let D be an entire complex plane with branch cuts along the rays $[-1,-1+i\infty]$ and $[1,+\infty]$. Given the function:

$$arphi\left(z
ight)=\sqrt[3]{1+z^2},\ \ arphi\left(0
ight)=1.$$

defined in the region D. Find $\varphi(3i)$, if:

- 1) D is an entirel complex plane with branch cuts along the rays $[-i,-i-\infty]$ и $[i,i+\infty]$;
- 2) D is an entirel complex plane with branch cuts along the rays $[-i,-i+\infty]$ и $[i,-\infty]$;

Use i for complex unity, and e^ for $e^{()}$.

1) $\varphi\left(3i\right) =$ 2) $arphi\left(3i
ight)=$

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