Problem 4.6

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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:

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

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)

$\varphi(3i) =$

2)

$\varphi(3i) =$

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