🏠 Course / 1. Algebra of complex numbers. Integration and differentiation of functions of complex variables. / Dedicated problems

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Problem 1.5

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Homework due Oct 24, 2020 20:00 EDT
Problem 1.5

0.0/4.0 points (graded)
Recover an analytic function $f\left(z = x + iy\right)$ satisfying the following equations.

1)$|f| = e^{r^2 \cos 2\varphi}$ with $z = re^{i\varphi}$

Use i for complex unity, sqrt(#) for $\sqrt{\#}$, #^2 for $\#^2$ and e^(#) for the exponential function.
$f\left(z\right) =$

[   ]

2)$\mathrm{Arg}\, f = xy$

Use i for complex unity, sqrt(#) for $\sqrt{\#}$, #^2 for $\#^2$ and e^(#) for the exponential function.
$f\left(z\right) =$

[   ]

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