

Solutions to Homework Assignment 12

MATH 345-01

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4. We have $f(z) = \frac{1}{z} = \frac{1}{x+iy} = \frac{x-iy}{x^2+y^2}$. Thus the level curves to plot are $\frac{x}{x^2+y^2} = C_1$ and $\frac{-y}{x^2+y^2} = C_2$ for values of C_1 and C_2 . The graphs are below.

