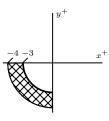
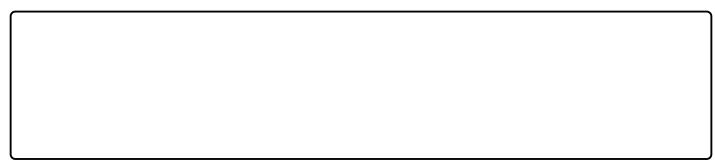
Exercise 1. Consider the figure which describes a region in the plane. The marked points are x = -4 and



x = -3. Describe the region in polar coordinates.



Exercise 2. Consider the complex number $z = e^{2\pi i/3}$. Show that the argument of \bar{z} coincides with the argument z^2 .



Exercise 3. Consider the complex number w = 2i. What is the real part of $\frac{w}{1+w^2}$?

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