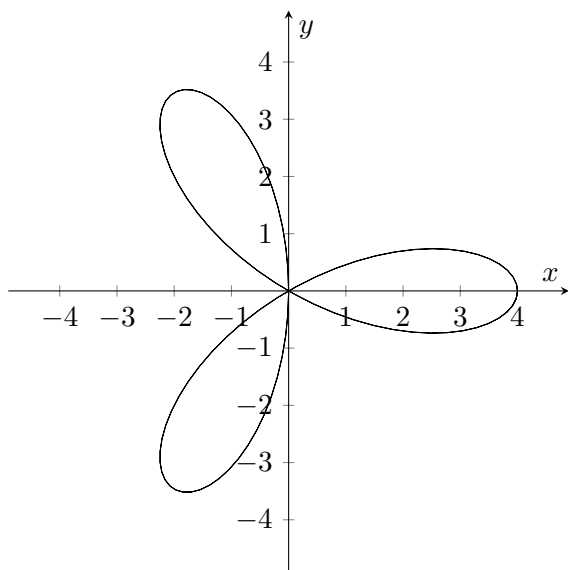


Name: _____

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1. Find the area of the region enclosed by one loop of the curve defined by the polar equation $r = 4 \cos 3\theta$.



2. Sketch the graph of $9x^2 + 16y^2 = 144$ and locate the foci.