Let $X$ and $Y$ be affine nonsingular real algebraic varieties. A general problem in real algebraic geometry is to try to decide when a continuous map $f : X \to Y$ can be approximated by regular maps in the space of $C^0$ mappings from $X$ to $Y$, equipped with the $C^0$ topology. This note solves this problem when $X$ is the connected component containing the origin of the real part of a complex abelian variety and $Y$ is the standard 2-dimensional sphere.

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