6. [8 points]
a. [4 points] Carefully draw the graph of a single function on the given axes that satisfies the given conditions, or, if no such function exists, write DNE.

A function $m(x)$ with domain containing $(-3,3)$ such that

- $m(x)$ is even,
- $m(x)$ is continuous and decreasing on $(-3,0)$,
- $m(x)$ is concave down on $(0,3)$, and
- $m(x)$ is not continuous at $x=0$.

b. [4 points] A portion of the graph of the function $g(x)$ is shown below on the left. Carefully sketch the graph of $g^{\prime}(x)$ for $-4<x<4$ on the given axes on the right.



