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 \( g'(x) \) for \(-4 < x < 4\) on the given axes on the right.