## **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.



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