

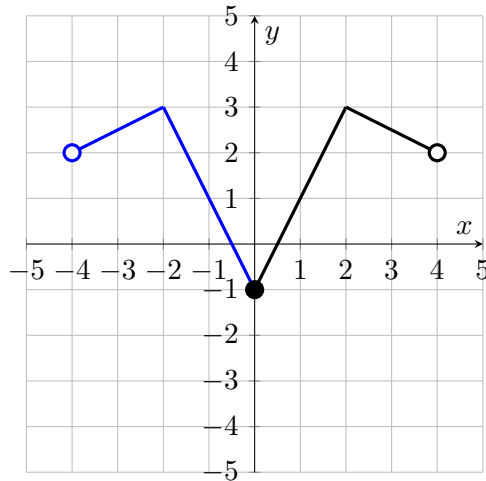
5. [5 points]

- a. On the axes below, part of the graph of a function $y = f(x)$ is given. Either draw in the rest of the graph to make the function **even**, or briefly explain why this is not possible.

Answer (Circle one):

POSSIBLE

NOT POSSIBLE



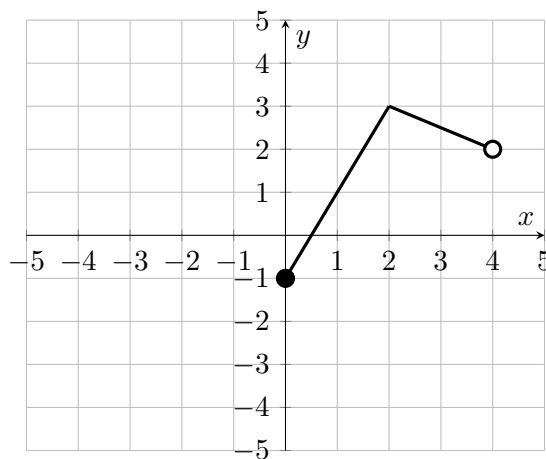
Explanation:

- b. On the axes below, part of the graph of a function $y = g(x)$ is given. Either draw in the rest of the graph to make the function **odd**, or briefly explain why this is not possible.

Answer (Circle one):

POSSIBLE

NOT POSSIBLE



Explanation: Not possible. Note that 0 is in the domain, with $g(0) = -1$. If g were odd, then we would have $g(-0) = -(-1) = 1$, but $g(-0) = g(0)$, so we would need to have two different values for $g(0)$, which isn't allowed for a function.

(Note that it isn't quite true that any odd function must pass through the origin—there is also the possibility that 0 is not in the domain. For example, the function $y = 1/x$ is odd, even though it does not pass through the origin.)