Even, ODD, or Neither

Analyze each graph below to make a prediction to determine whether the graph has line symmetry, point symmetry, or no symmetry.

* A graph with **line symmetry** could be folded along a line so that the two halves match perfectly.
* A graph with **point symmetry** could be rotated 180° about a point and the graph would appear the same.

Use your prediction to algebraically prove whether a function is even, odd, or neither.

* A function is **even** if . Even functions are symmetric with respect to the *y*-axis.
* A function is **odd** if . Odd functions are symmetric with respect to the origin.

| Graph | Line, Point, or No Symmetry | Even, Odd, or Neither |
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