Half-Car Symmetry on Graph Paper: Complete the Mirror Image

Original task 1 / independent drawing and calculation

Task 1

Mirror the points (-4, 2), (-2, 5), and (0, 7) across the vertical axis x = 0. List the mirrored points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Half-Car Symmetry on Graph Paper: Complete the Mirror Image

Original task 2 / independent drawing and calculation

Task 2

A left-half outline includes a point at (-3, 4). A student marks the mirror at (3, 5). Explain the error and give the correct point.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Half-Car Symmetry on Graph Paper: Complete the Mirror Image

Original task 3 / independent drawing and calculation

Task 3

The left half has outline points (-6, 1), (-4, 3), (-2, 3), and (0, 5). Mirror them and state the order in which to connect the right-half points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Half-Car Symmetry on Graph Paper: Complete the Mirror Image

Original task 4 / independent drawing and calculation

Task 4

A completed right half has points (2, 3), (4, 3), and (5, 1). The left half has (-2, 3), (-4, 3), and (-5, 1). A checker says the outline is correct. Is the checker right? Give a reason.

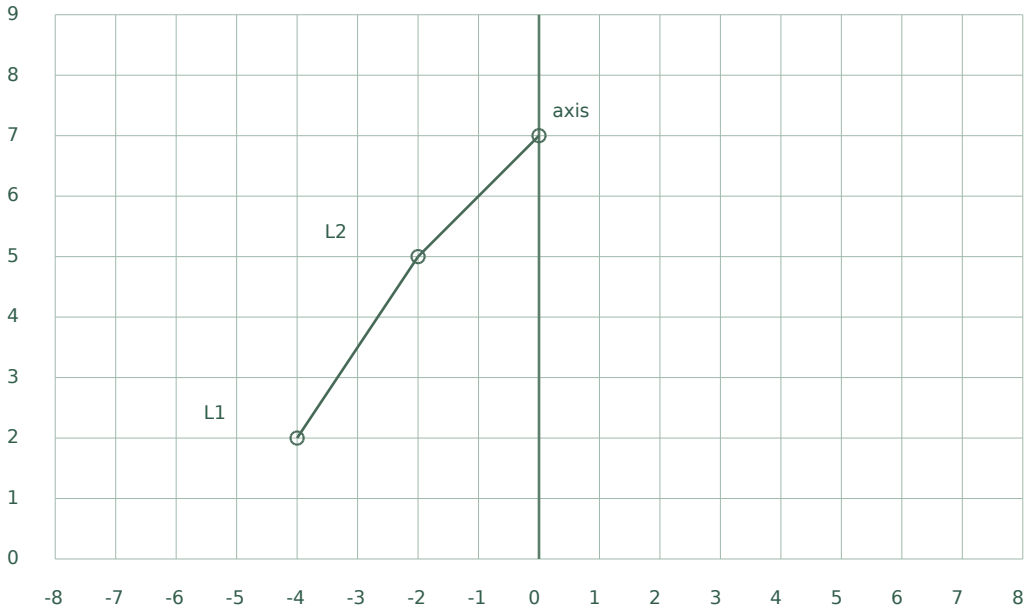
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Task 1 / practice

Mirror the supplied partial outline / vertical axis x = 0

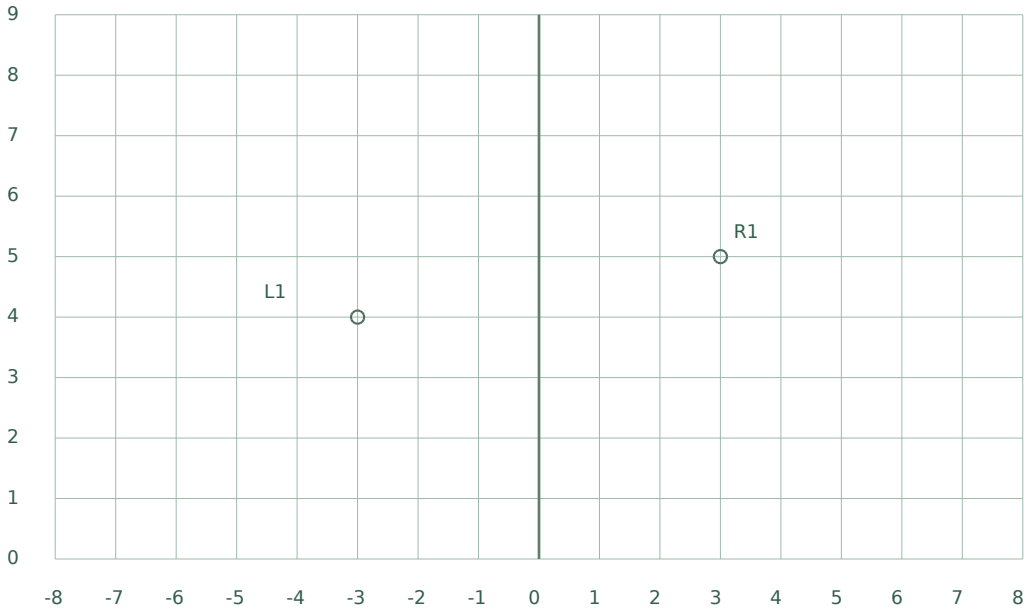


Given LEFT points and connections only; the right half remains unplotted.

Your points / reason: _____

_____

Mirror the supplied partial outline / vertical axis x = 0

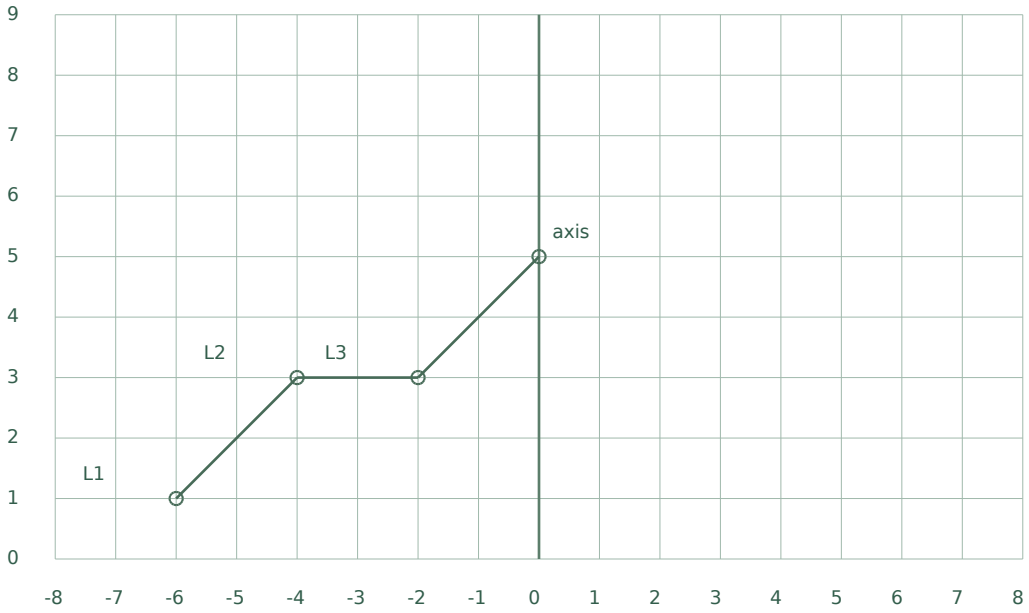


GIVEN wrong point: (3, 5). Compare it with the left point (-3, 4).

Your points / reason: _____

_____

Mirror the supplied partial outline / vertical axis x = 0

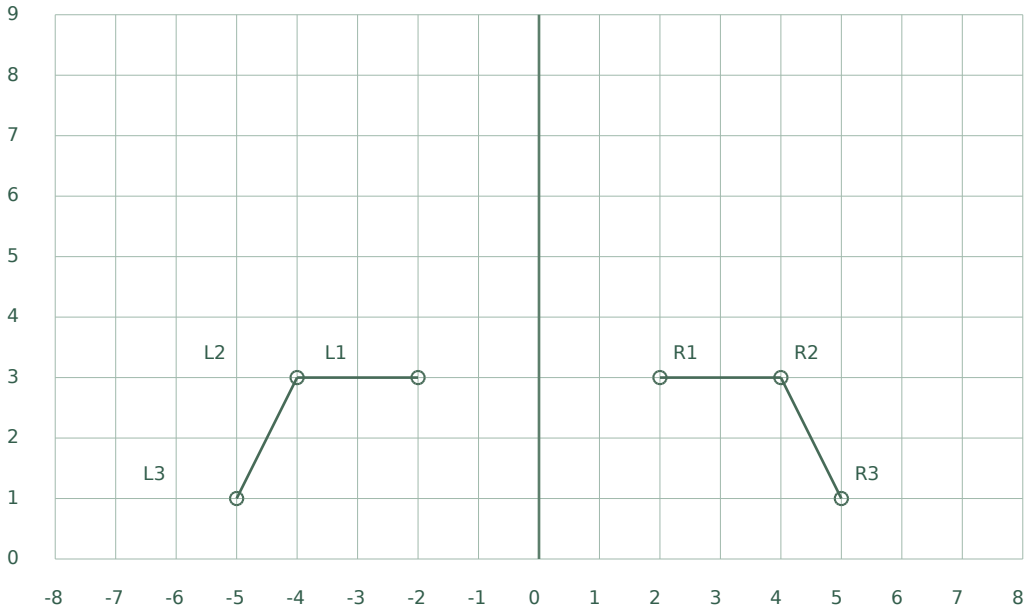


Given LEFT points and connections only; the right half remains unplotted.

Your points / reason: _____

_____

Mirror the supplied partial outline / vertical axis x = 0



Both halves are GIVEN here. Decide whether the checker is right and explain.

Your points / reason: _____

_____