ALGEBRA 2 · CLASSWORK · SPECIAL ED

Represent the Inverse of a Relation

SCORE / 25

01 Part A · Practice

The inverse of a relation swaps the coordinates of every pair: $(x, y) \to (y, x)$; its graph is the reflection over the line $y = x$.

EXAMPLE

Find the inverse of $\{(1, 4), (2, 5), (3, 4)\}$**.**

1. Swap each pair: $\{(4, 1), (5, 2), (4, 3)\}$.
2. The input 4 has two outputs, so the inverse is not a function.

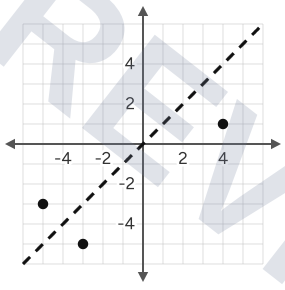
WORDS TO KNOW

inverse relation	swap x and y in every pair
reflection	a mirror image over the line y = x
function	each input has exactly one output

1 ●○○

Graph the inverse of the relation shown (points). The dashed line is $y = x$.

HINT Swap x and y for each point; the picture is a mirror image over y = x.



2 ●○○

Find the inverse of the relation $\{(-5, -1), (-5, -5), (4, -3)\}$.

HINT Each (x, y) becomes (y, x).

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Preview - the full worksheet and its answer key are at primeworksheet.com