ALGEBRA 2 · HOMEWORK · ADVANCED

Represent the Inverse of a Relation

SCORE / 25

01 Part A · Practice

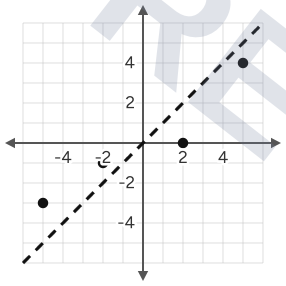
The inverse of a relation swaps the coordinates of every pair: $(x, y) \to (y, x)$; its graph is the reflection over the line $y = x$.

1 ●○○ For $R = \{(7, 2), (0, 0), (7, -1), (7, -4)\}$, give the domain and range of the inverse.

2 ●○○ Find the inverse of the relation $\{(4, 7), (0, -4), (1, 4), (1, -4)\}$.

3 ●○○ Is the inverse of $\{(7, 0), (-3, -4), (-1, 4), (6, 0)\}$ a function? Explain.

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



5 ●○○ Make a table for the inverse of the relation shown.

x	-1	0	6	8
y	-3	-1	11	-8

6 ●○○ Is the inverse of $\{(-5, 4), (1, 4), (6, 5), (4, -2)\}$ a function? Explain.

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