ALGEBRA 2 · CLASSWORK

Find an Equation of an Inverse Relation

SCORE / 25

01 Part A · Practice

To find the inverse of a relation given by an equation, switch x and y, then solve for y.

EXAMPLE

Find the inverse of $y = 3x - 6$.

1. Swap: $x = 3y - 6$.
2. Add 6: $x + 6 = 3y$.
3. $y = \frac{x + 6}{3}$.

1 ●○○ Find an equation for the inverse of $y = 2x^2 + 6$.

2 ●○○ Is the inverse of $y = 2x^2 + 3$ a function? Explain.

3 ●○○ Find an equation for the inverse of $y = x^3 + 5$.

4 ●○○ Find an equation for the inverse of $y = 4x - 7$.

5 ●○○ Find an equation for the inverse of $y = 2x^3 - 9$.

6 ●○○ Find an equation for the inverse of $y = 3x^2 + 6$.

7 ●○○ Find an equation for the inverse of $y = 3x + 5$.

8 ●○○ Is the inverse of $y = 2x + 3$ a function? Explain.

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