ALGEBRA 2 · CLASSWORK

Reflect a Function Across the x- or y-Axis

SCORE / 25

01 Part A · Practice

$g(x) = -f(x)$ reflects the graph across the x-axis; $g(x) = f(-x)$ reflects it across the y-axis.

EXAMPLE

Reflect $f(x) = x^2 - 3x$ across the y-axis.

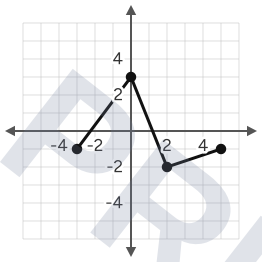
1. Replace x with $-x$: $(-x)^2 - 3(-x)$.
2. Simplify: $g(x) = x^2 + 3x$.

1 ●○○ Reflect $f(x) = \sqrt{x + 4} - 3$ across the y-axis. Write $g(x)$.

2 ●○○ $(4, -6)$ is on the graph of f. Which point is on the graph of $g(x) = f(-x)$?

3 ●○○ $f(x) = -2x - 2$. Write g, the reflection of f across the x-axis.

4 ●○○ The graph of f is shown. Graph $g(x) = f(-x)$. List the new points.



5 ●○○ $f(x) = -2x - 6$. Write g, the reflection of f across the y-axis.

6 ●○○ Reflect $f(x) = (x + 2)^2$ across the x-axis. Write $g(x)$.

PREVIEW

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