ALGEBRA 1 · CLASSWORK · SPECIAL ED

Analyze the Graph of a Piecewise-Defined Function

SCORE / 25

01 Part A · Practice

Key features — domain, range, maximum, minimum, and where the graph increases or decreases — come from the endpoints and the slope of each piece.

EXAMPLE

For $f(x) = \begin{cases} x + 3, & -4 \le x \le 0 \\ 3 - 2x, & 0 < x \le 3 \end{cases}$ **find the range.**

1. Endpoint values: $f(-4) = -1$, $f(0) = 3$, $f(3) = -3$.
2. Lowest -3, highest 3: range $-3 \le y \le 3$.
3. Increasing for $-4 < x < 0$, decreasing for $0 < x < 3$.

WORDS TO KNOW

domain	all x-values the function uses
range	all y-values the function gives
maximum	the greatest y-value

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