ALGEBRA 2 · CLASSWORK · ADVANCED

Graph a Combination of Transformations

SCORE / 25

01 Part A · Practice

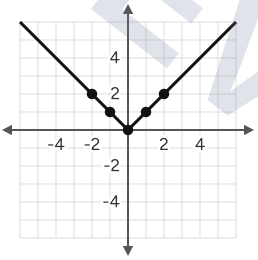
For $g(x) = af(x - h) + k$: stretch or reflect with a first, then translate right h and up k.

EXAMPLE

Graph $g(x) = -2|x - 1| + 3$.

1. Start with $|x|$: points $(-1, 1)$, $(0, 0)$, $(1, 1)$.
2. Multiply each y by -2: $(-1, -2)$, $(0, 0)$, $(1, -2)$.
3. Move right 1, up 3: $(0, 1)$, $(1, 3)$, $(2, 1)$.

1 ●○○ Graph $g(x) = -3|x - 1| - 1$. The graph of $f(x) = |x|$ is shown.



2 ●○○ $(3, -5)$ is on the graph of f. Find the matching point on $g(x) = 2f(x - 4) - 2$.

3 ●○○ Write g: the graph of $f(x) = x^2$ vertically compressed by a factor of $\frac{1}{2}$, translated 4 left, 2 down.

4 ●○○ Write g: the graph of $f(x) = \sqrt{x}$ vertically stretched by a factor of 2, translated 3 left, 3 down.

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