ALGEBRA 2 · CLASSWORK

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.

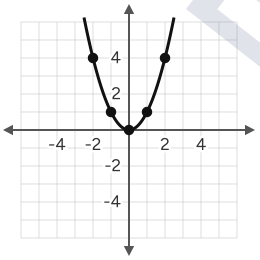
EXAMPLE

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 ●○○ $(3, 2)$ is on the graph of f. Find the matching point on $g(x) = -2f(x + 2) - 1$.

2 ●○○ Graph $g(x) = 3(x - 2)^2 + 3$. The graph of $f(x) = x^2$ is shown.



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