ALGEBRA 2 · CLASSWORK · ADVANCED

Write an Equation From a Graph

SCORE / 25

01 Part A · Practice

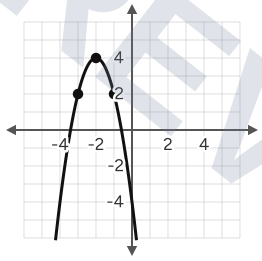
Read the vertex (h, k) from the graph, then use another point to find a in $y = af(x - h) + k$.

EXAMPLE

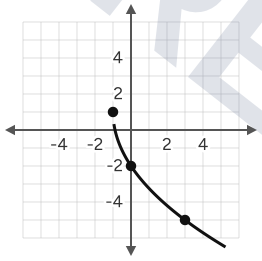
A V-shaped graph has vertex $(2, -1)$ **and passes through** $(3, 1)$**.**

1. $y = a|x - 2| - 1$.
2. Use $(3, 1)$: $1 = a|3 - 2| - 1$, so $a = 2$.
3. $y = 2|x - 2| - 1$.

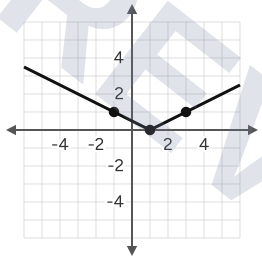
1 ●○○ Write an equation for the parabola graph shown. Use the parent x^2.



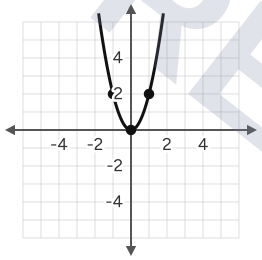
2 ●○○ Write an equation for the square root graph shown. Use the parent $\sqrt{x}$.



3 ●○○ Write an equation for the V-shaped graph shown. Use the parent $|x|$.



4 ●○○ Write an equation for the parabola graph shown. Use the parent x^2.



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