DO NOW

ALGEBRA 1 · 5 MINUTES · START RIGHT AWAY

Lesson 5-1b **Transform the Absolute Value Function**

Name _____ Date _____ Per _____

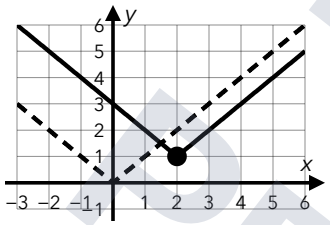
1 FLUENCY

Find the vertex of the graph of $g(x) = |x + 4| - 2$.

Vertex: (☐, ☐)

2 VISUAL MODEL

The dashed graph is $f(x) = |x|$. Write an equation for the solid graph g.



$g(x) =$ _____

Shift: _____

3 APPLICATION

A skate ramp is modeled by $y = |x|$. The builder moves the ramp 3 ft right and raises it 5 ft. Write the new function and find its value at $x = 0$.

$g(x) =$ _____ $g(0) =$ ☐

WORK

4 REASONING

Mia says the graph of $g(x) = |x + 5|$ is the graph of $f(x) = |x|$ shifted 5 units right. Is she correct? Explain.

Yes or **No**

_____

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

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