

Name: _____ Period: _____ Date: _____

Graphing Absolute Value Functions Bell Work

Write an equation for each translation of $y = |x|$.

1) 4 units up

2) 3 units down

3) 1 unit left

4) 2 units right

Graphing Absolute Value Functions Bell Work**Answer Key**Write an equation for each translation of $y = |x|$.1) **4 units up**

$$f(x) = |x| + k$$

$$k = +4$$

$$f(x) = |x| + 4$$

2) **3 units down**

$$f(x) = |x| + k$$

$$k = -3$$

$$f(x) = |x| - 3$$

3) **1 unit left**

$$f(x) = |x + h|$$

$$h = +1$$

$$f(x) = |x + 1|$$

4) **2 units right**

$$f(x) = |x + h|$$

$$h = -2$$

$$f(x) = |x - 2|$$