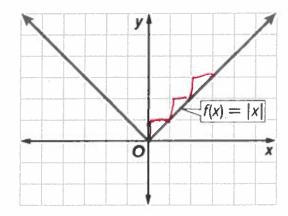
## Absolute Value Functions (Part 1)

Parent Function: f(x) = |x|

**Translated Function**: g(x) = a|x - h| + k



1. Describe the translation in g(x) = |x| - 3 as it relates to the graph of the parent function.

Down 3

Describe the translation in g(x) = |x| + 2 as it relates to the graph of the parent function.

3. Describe the translation in g(x) = |x - 4| as it relates to the graph of the parent function.

Right 4

4. Describe the translation in g(x) = |x + 5| as it relates to the graph of the parent function.

Left 5

5. Describe the translation in g(x) = |x + 2| - 3 as it relates to the graph of the parent function.

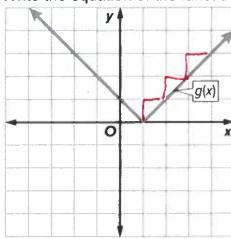
Down 3

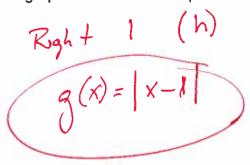
6. Describe the translation in g(x) = |x - 1| + 7 as it relates to the graph of the parent function.

up 7

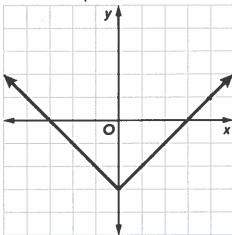
## **Absolute Value Functions (Part 1)**

7. Write the equation of the function from its graph in relation to the parent function.



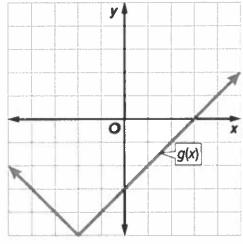


8. Write the equation of the function from its graph in relation to the parent function.



Down 3 (K) 
$$g(x) = |x| - 3$$

9. Write the equation of the function from its graph in relation to the parent function.



Down 5
$$g(x) = |x+2|-5$$