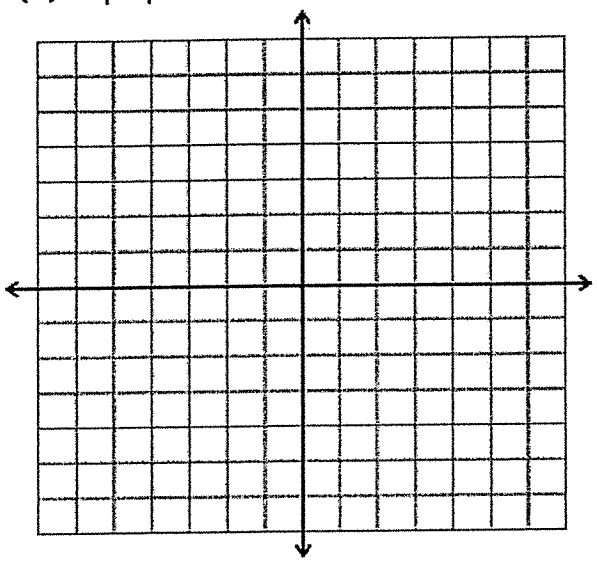
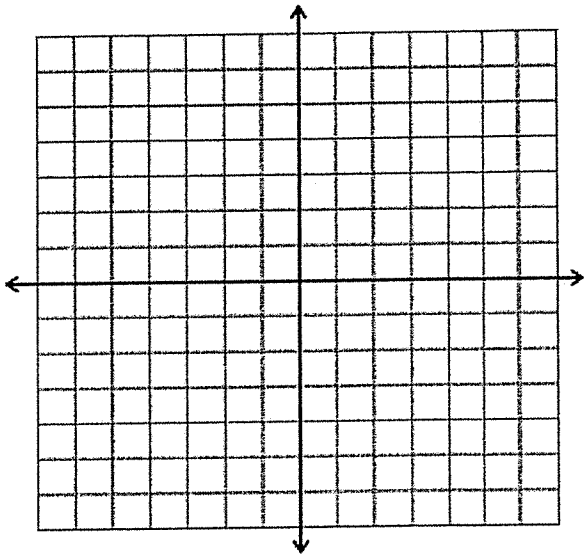
For each of the following functions:

1. Use a pencil to graph the parent function. 2. Use a different color to graph the transformation. 3. Use complete sentences to describe the transformation.

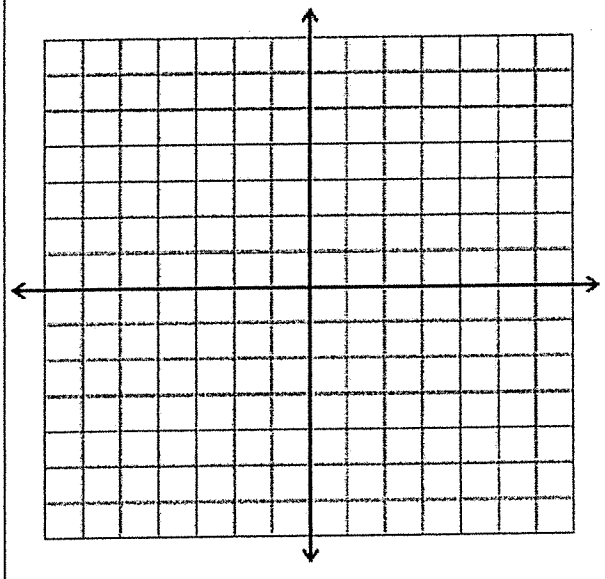
$f(x) = |x| + 1$



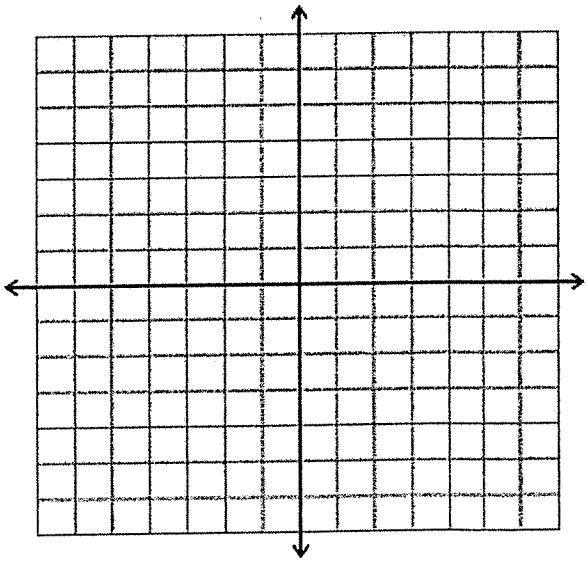
$f(x) = -|x|$



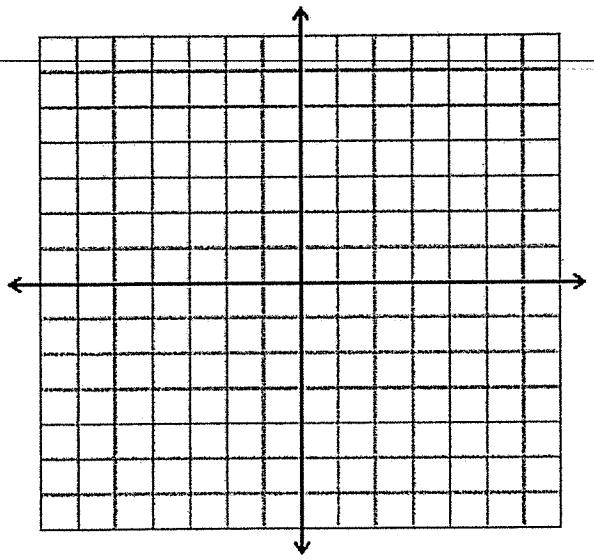
$f(x) = |x + 1| + 1$



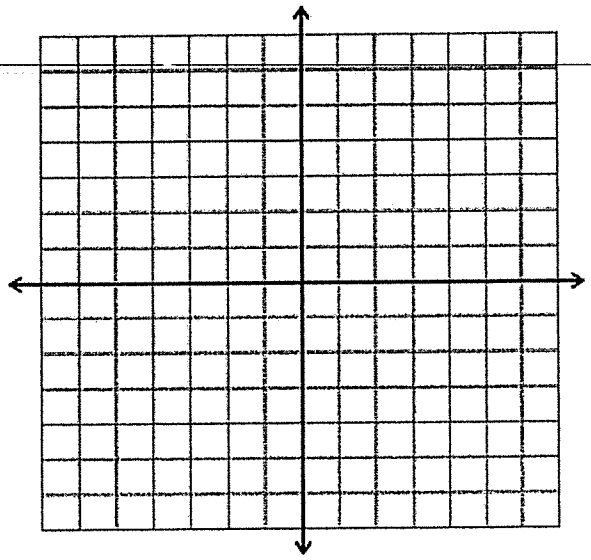
$f(x) = 2|x|$



$f(x) = |2x|$



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



Without graphing, use complete sentences to describe the transformation.

1. $f(x) = -2|x + 1| + 1$ _____

2. $y = -\sqrt{x + 2} - 1$ _____

3. $f(x) = -(x - 2)^3 - 4$ _____

4. $f(x) = (x + 2)^2 - 1$ _____

5. $f(x) = \sqrt[3]{x - 1} + 2$ _____

6. $y = \sqrt{x - 2} - 3$ _____