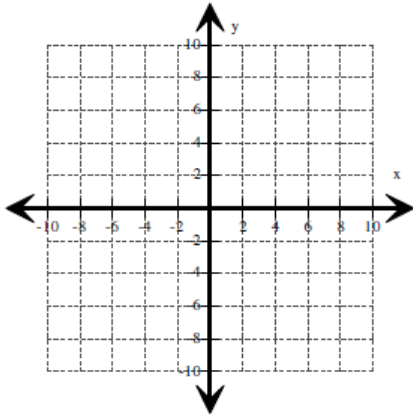


1. Draw the graph  $f(x) = |x|$       2. Give the functions Domain and Range

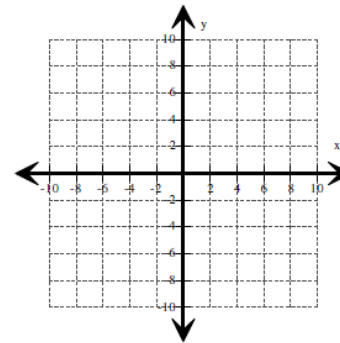
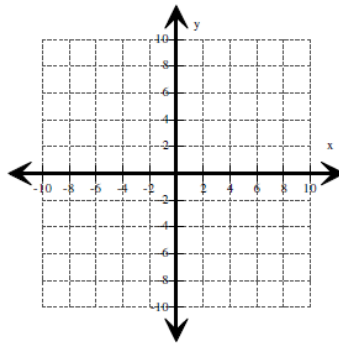
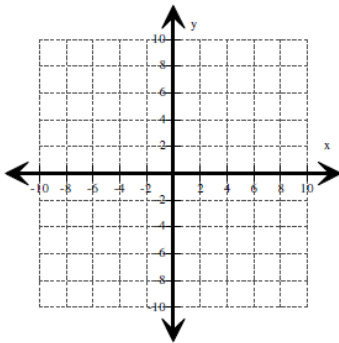


Graph each function below. Describe the translation of the parent function  $f(x) = |x|$ .

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

2.  $f(x) = |x| - 6$

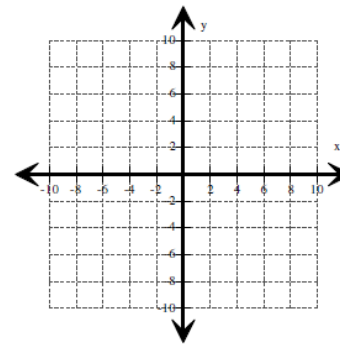
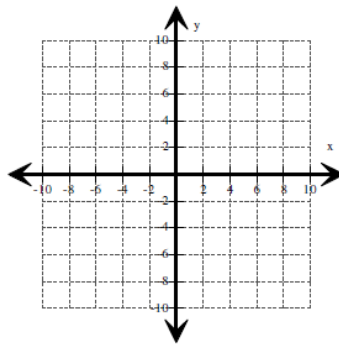
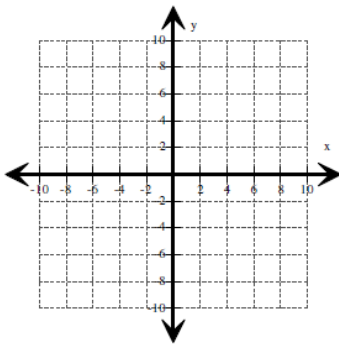
3.  $f(x) = |x + 2|$



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

5.  $f(x) = |x + 5|$

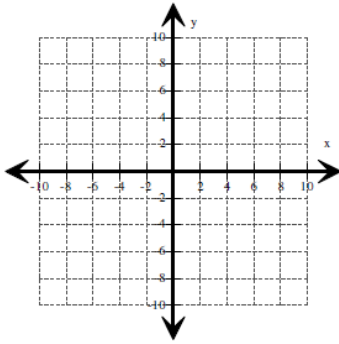
6.  $f(x) = |x| - 3$



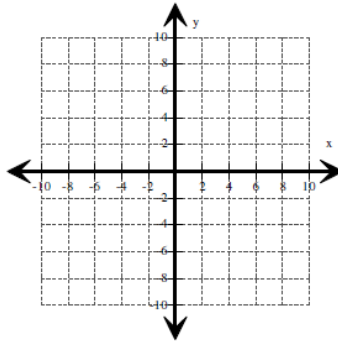
Graph each function below. Describe the translation of the parent function  $f(x) = |x|$ .

- Give the functions Domain and Range
- Give the functions intervals of increase and decrease
- Give the functions absolute maximum or minimum

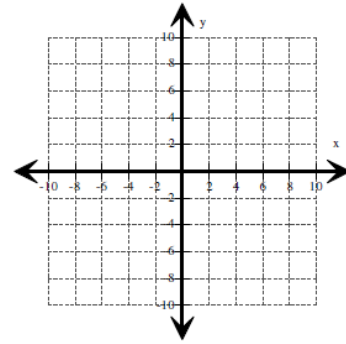
1.  $f(x) = |x+2| - 4$



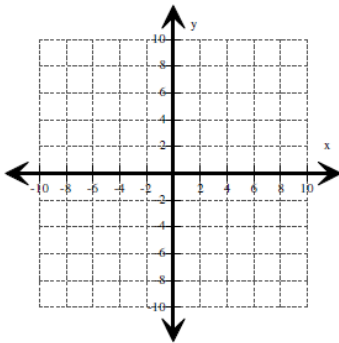
2.  $f(x) = |x-3| - 6$



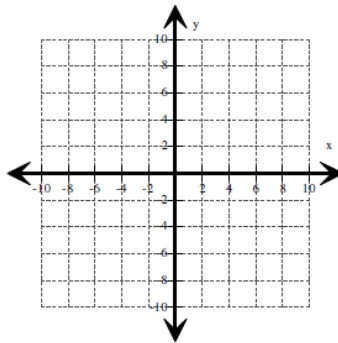
3.  $f(x) = |x-1| + 3$



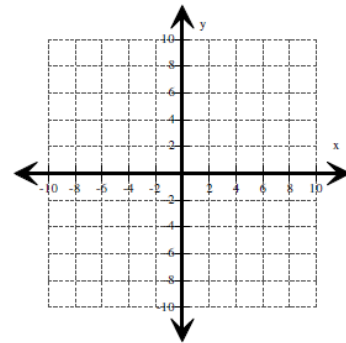
4.  $f(x) = |x+3| - 1$



5.  $f(x) = |x+3| + 5$



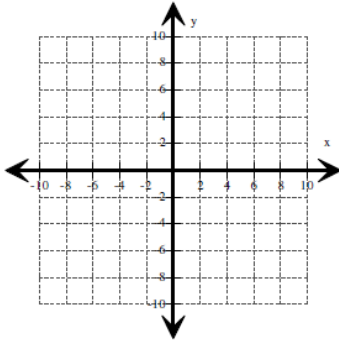
6.  $f(x) = |x-4| + 1$



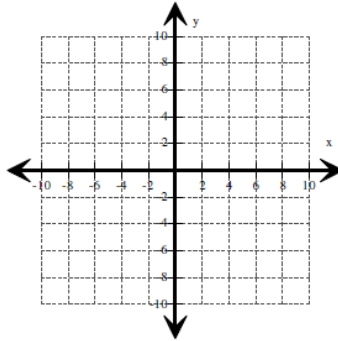
Graph each function below. Describe the transformation of the parent function  $f(x) = |x|$

- Give the functions Domain and Range
- Give the functions intervals of increase and decrease
- Give the functions absolute maximum or minimum

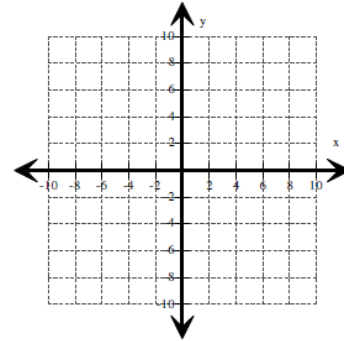
1.  $f(x) = |x+3|+2$



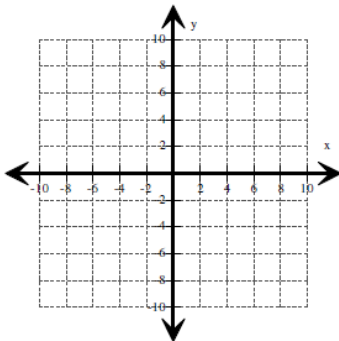
2.  $f(x) = -|x+3|+5$



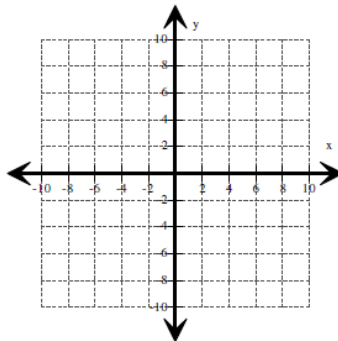
3.  $f(x) = -|x-5|-2$



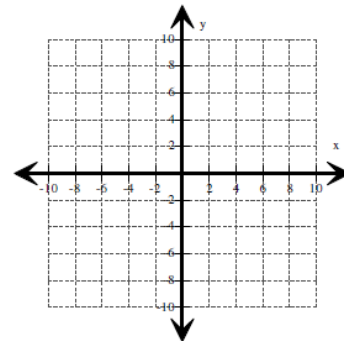
4.  $f(x) = -|x-2|-3$



5.  $f(x) = |x+6|+1$

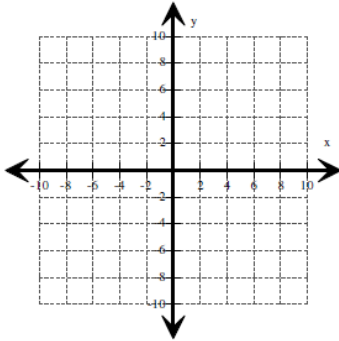


6.  $f(x) = -|x+3|-4$

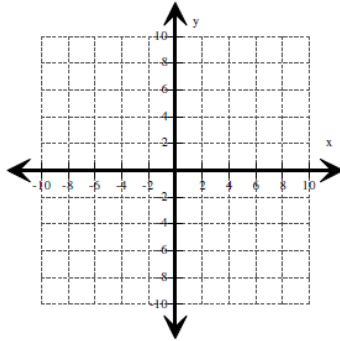


Graph each function below. Describe the transformation of the parent function  $f(x) = |x|$ .

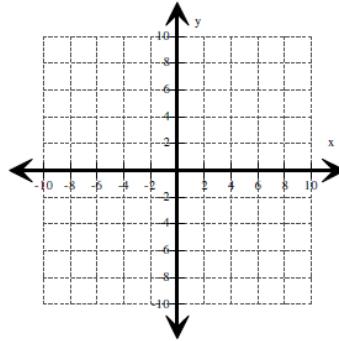
1.  $f(x) = -2|x-1|+5$



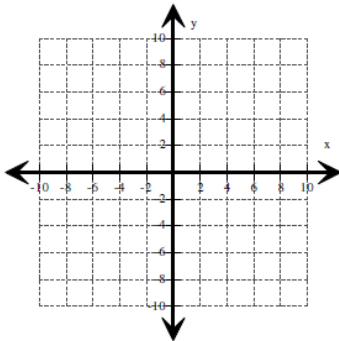
2.  $f(x) = .5|x-1|+3$



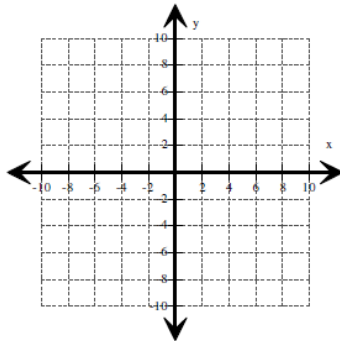
3.  $f(x) = 3|x-2|+1$



4.  $f(x) = -3|x+2|+3$



5.  $f(x) = .25|x+1|-4$



6.  $f(x) = -1.5|x+3|-2$

