Algebra 2 Honors - Mr. Allen-Black   Name_____ ID: 1
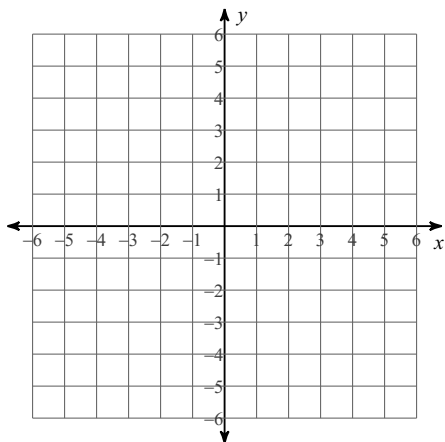# Warm-Ups - Graphing Absolute Value Functions   Date_____ Period_____

1) Below is the parent graph of the absolute
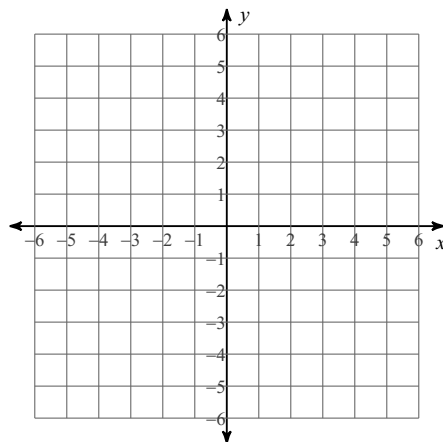   value function.
   $y = |x|$
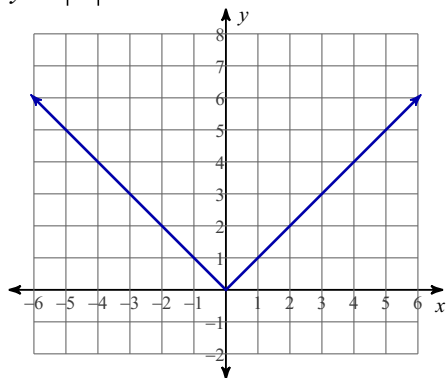
**Based on the parent graph of the function above, graph each equation. Consider the
transformations you learned this unit. Give the DOMAIN and the RANGE for each function.**

2) $y = |x| - 2$

3) $y = -|x - 3| + 2$

Graph the piecewise function.

4) $\begin{cases} x + 3, & -7 < x < 0 \\ x^2, & 0 \le x < 2 \\ -\dfrac{1}{2}x + 5, & x \ge 2 \end{cases}$

5) Give the DOMAIN and RANGE of the
   entire piecewise function in problem 4.
   (Consider it all one function, not three
   separate pieces.)