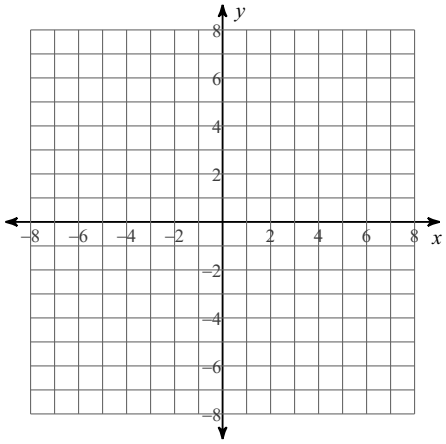
IM3 Name_____ ID: 1

PIECEWISE FUNCTIONS LINEAR ONLY

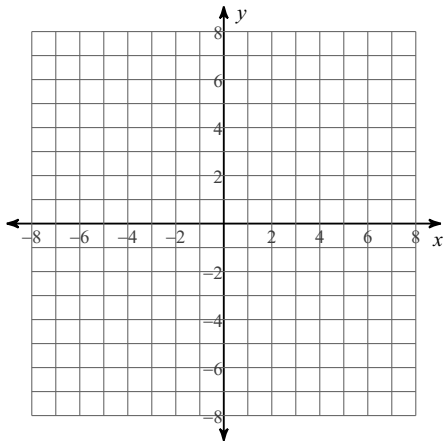
Date_____ Period____

Sketch the graph of each function.

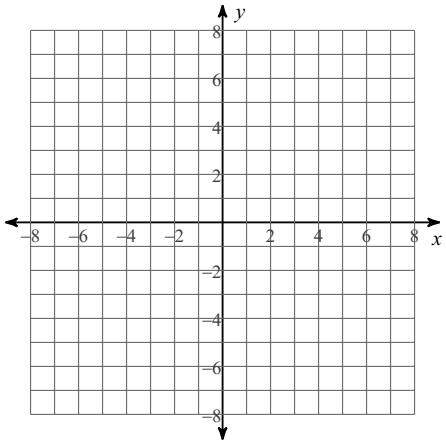
1) $f(x) = \begin{cases} -2, & x < -4 \\ x + 2, & -4 \le x \le 1 \\ x, & x > 1 \end{cases}$



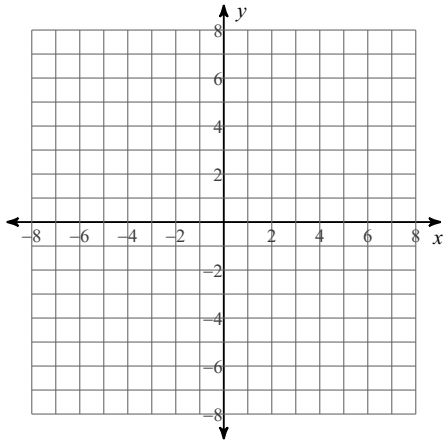
2) $g(x) = \begin{cases} x + 3, & x < -3 \\ -2x - 2, & x \ge -3 \end{cases}$



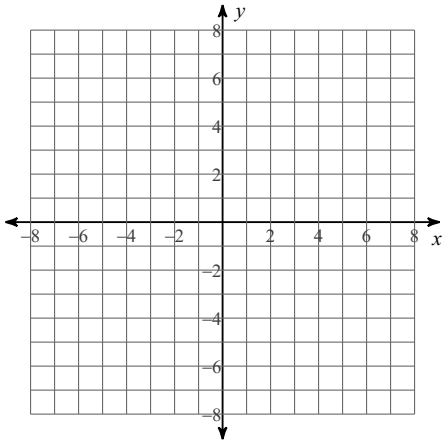
3) $g(x) = \begin{cases} x + 2, & x < -3 \\ -6, & -3 \le x < 3 \\ -x + 2, & x \ge 3 \end{cases}$



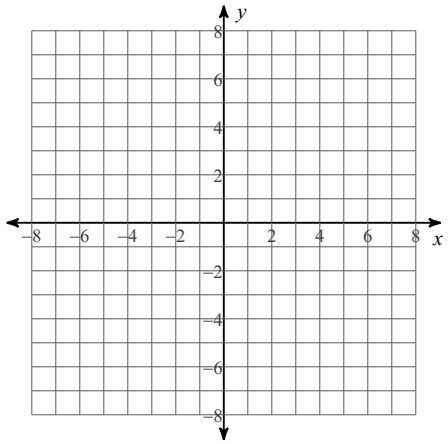
4) $f(x) = \begin{cases} -4, & x < 4 \\ -x + 4, & x \ge 4 \end{cases}$



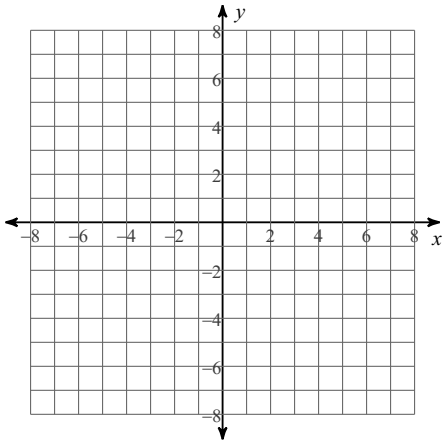
5) $f(x) = \begin{cases} -4, & x \le -1 \\ 2x - 2, & -1 < x < 4 \\ -2, & x \ge 4 \end{cases}$



6) $g(x) = \begin{cases} -x - 1, & x < 1 \\ -x + 2, & x \ge 1 \end{cases}$



7) $f(x) = \begin{cases} -x - 3, & x \le -4 \\ -2, & x > -4 \end{cases}$



8) $f(x) = \begin{cases} -5, & x \le 0 \\ -x - 1, & x > 0 \end{cases}$