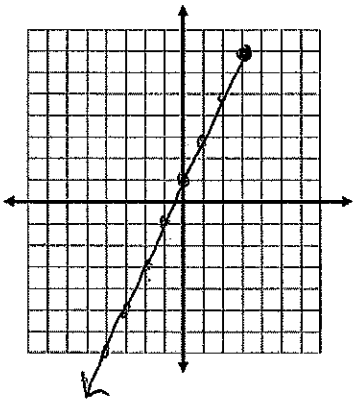


Intro to Piecewise Functions Worksheet

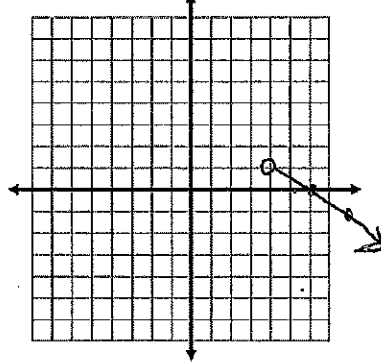
Name: Key Hr: _____

Graph the following functions with their restricted domains.

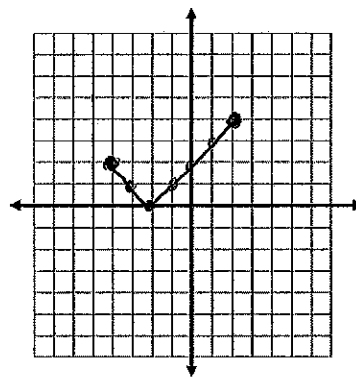
1. $y = 2x + 1, x \leq 3$



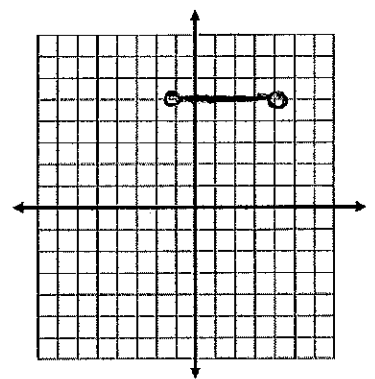
2. $y = -\frac{1}{2}x + 3, x > 4$



3. $y = |x + 2|, -4 \leq x \leq 2$

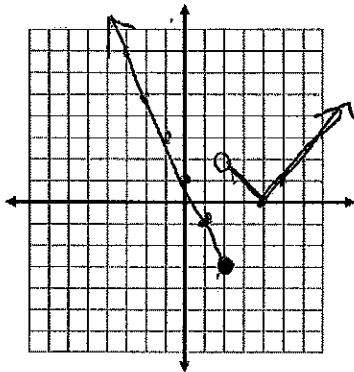


4. $y = 5, -1 < x < 4$

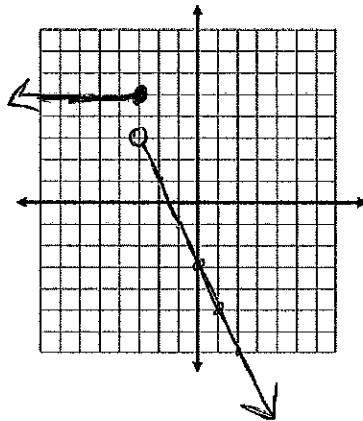


Graph the following piecewise functions.

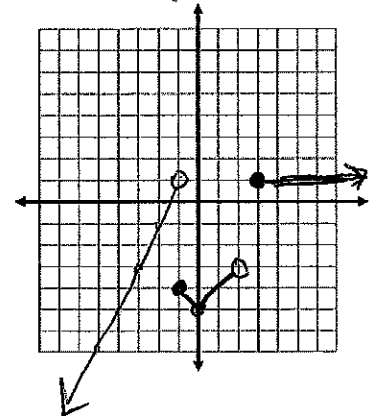
5. $f(x) = \begin{cases} -2x + 1 & x \leq 2 \\ |x - 4| & x > 2 \end{cases}$



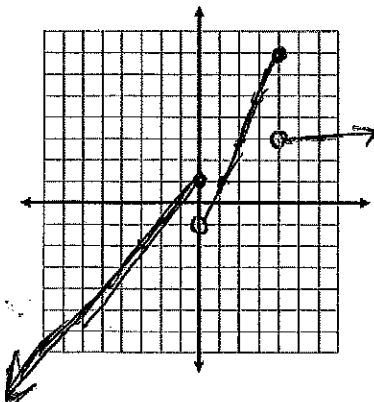
6. $f(x) = \begin{cases} 5 & x \leq -3 \\ -2x - 3 & x > -3 \end{cases}$



7. $f(x) = \begin{cases} 2x + 3, & x < -1 \\ |x| - 5, & -1 \leq x < 2 \\ 1, & x \geq 2 \end{cases}$

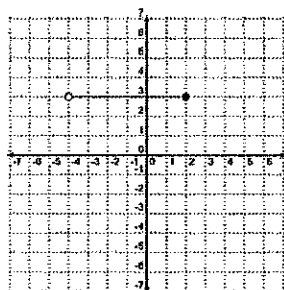


8. $f(x) = \begin{cases} x + 1, & x \leq 0 \\ 2x - 1, & 0 < x \leq 4 \\ 3, & x > 4 \end{cases}$



Write an equation with its restricted domain for each graph

9. $f(x) = 3, -4 < x \leq 2$



10. $f(x) = -x + 1, -3 < x < 3$

