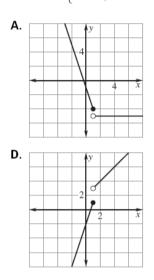
Math 3 Unit 1 Day 6 HW

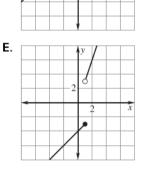
Name:_____ Date:

$f(x) = \begin{cases} 3, & \text{if } x \le 0\\ 2, & \text{if } x > 0 \end{cases}$	$g(x) = \begin{cases} x + 5, & \text{if } x \le 3\\ 2x - 1, & \text{if } x > 3 \end{cases}$		$h(x) = \begin{cases} \frac{1}{2}x - 4, & \text{if } x \le -2\\ 3 - 2x, & \text{if } x > -2 \end{cases}$
1. <i>f</i> (2)	2 . <i>f</i> (-4)	3 . <i>f</i> (0)	4. $f(\frac{1}{2})$
5 . g(7)	6. g(0)	7. $g(-1)$	8 . g(3)
9. $h(-4)$	10. $h(-2)$	11 . <i>h</i> (-1)	12 . <i>h</i> (6)

Match the piecewise function with its graph.

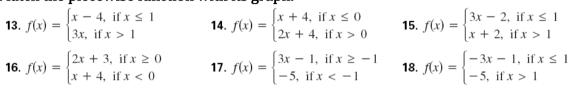


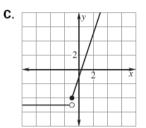
Β.

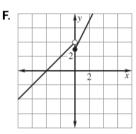


 $f(x) = \begin{cases} x + 1, & \text{if } x < 0\\ -x + 1, & \text{if } 0 \le x \le 2\\ x - 1, & \text{if } x > 2 \end{cases}$

20.



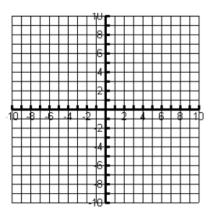


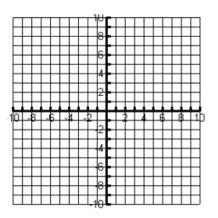


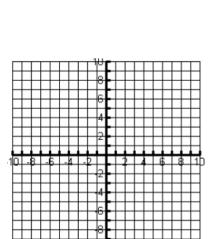
21.

Graph the function. 19.

$$f(x) = \begin{cases} x+3, & \text{if } x \le 0\\ 2x, & \text{if } x > 0 \end{cases}$$







 $f(x) = \begin{cases} 2, \text{ if } x \le -3\\ -1, \text{ if } -3 < x < 3\\ 3, \text{ if } x \ge 3 \end{cases}$

- 22. The admission rates at an amusement park are as follows. Children 5 years old and under: free Children between 5 years and 12 years, inclusive: \$10.00 Children between 12 years and 18 years, inclusive: \$25.00 Adults: \$35.00
- a) Write a piecewise function that gives the admission price for a given age.

b) Graph the function.

