Practicing our Piecewise (again!)

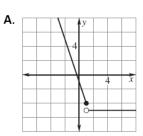
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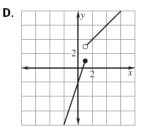
	_			-		
Evaluate	the	function	for the	• given	value of x	

$f(x) = \begin{cases} 3, & \text{if } x \le 0\\ 2, & \text{if } x > 0 \end{cases}$	$g(x) = \begin{cases} x \\ 2x \end{cases}$	$h(x) = \begin{cases} \frac{1}{2}x - 4, & \text{if } x \le -2\\ 3 - 2x, & \text{if } x > -2 \end{cases}$	
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)

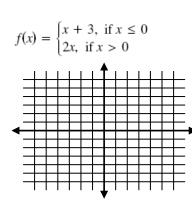
Match the piecewise function with its graph. Write the answer next to the problem number.

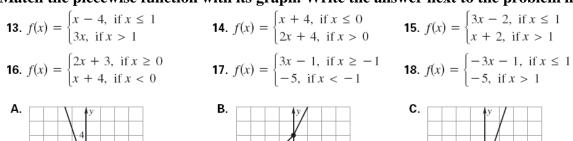
Name

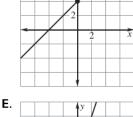


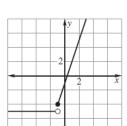


Graph the function. 19.

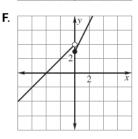




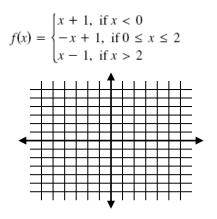


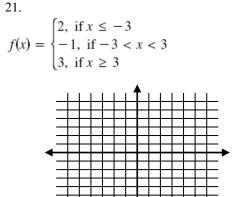


Date

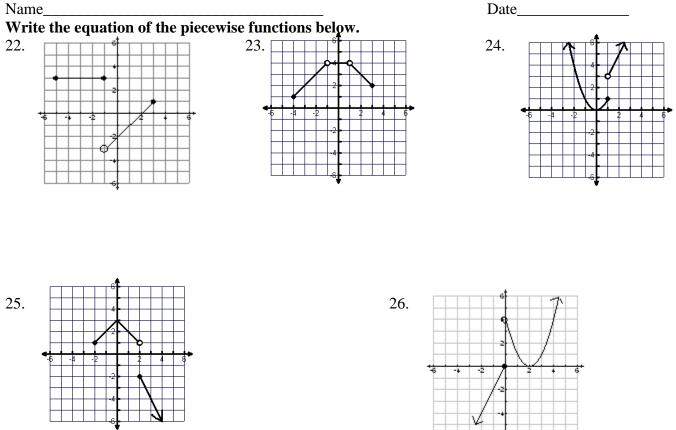








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- 27. Use the graphs of f and g to answer the questions.
- (a) (g-f)(10)
- (b) (fg)(6)
- (c) $g(f^{-1}(-3))$
- (d) 3g(2f(x)+1) at x=4
- 8 8 6 6 f(X) -10 -8 -6 -10 -8 -6 -4 6 8 10 -2 4 2 -2 -4 6 -6 8 8 10 10
- (e) On what interval(s) is f(x) increasing?

(f) What is the absolute maximum value of g(x)?

g(x)

10