

Piecewise Functions

Name: _____ Period: _____

Functions

$f(x) = x - 2$

$g(x) = x + 3$

Domain

$x < 3$

$x \geq 3$

Evaluate

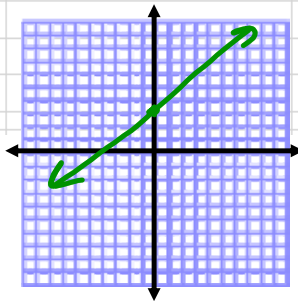
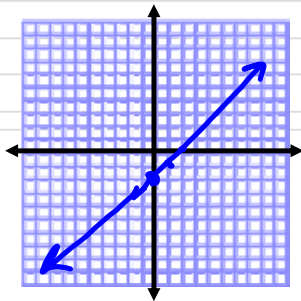
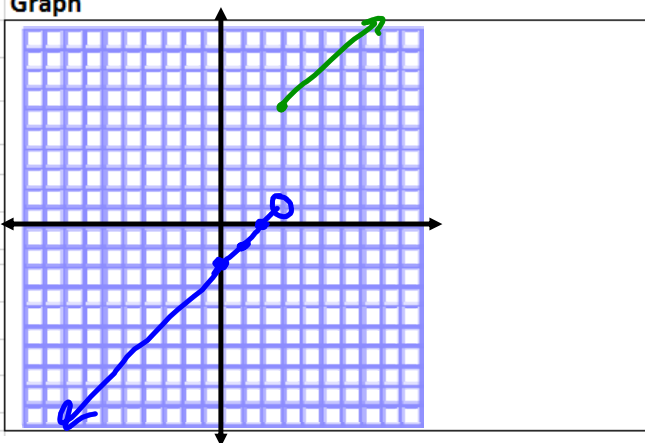
$f(2) = 0$

$f(6) = -4$

$g(3) = 7$

$g(2) = 9$

Graph



Functions	Domain	Graph
$f(x) = 3$	$x > -2$	
$g(x) = -x + 2$	$x \leq -2$	
$-(-2) + 2$	$-(-4) + 2$	
Evaluate		
$f(0) = 3$	$g(-5) = 7$	
$f(3) = 3$	$g(-2) = 4$	
	$g(-5) = -(-5) + 2$ $+5 + 2$ $g(-5) = 7$	

Piecewise Functions

Name: _____ Period: _____

Functions

$f(x) = -3x$

$g(x) = x^2$

$h(x) = -2$

Domain

$x \leq 0$

$x \quad 0 < x \leq 3$

$x > 3$

Evaluate

$f(-8) = 24$

$f(-7) = 21$

$h(4) = -2$

$g(1) = 1$

$g(3) = 9$

$h(9) = -2$

Graph

