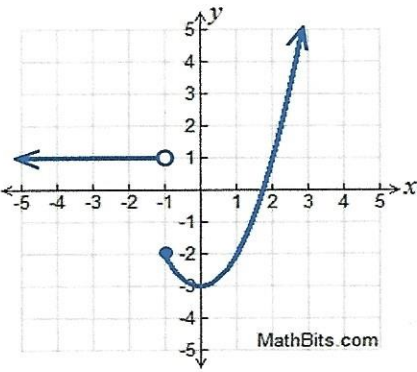
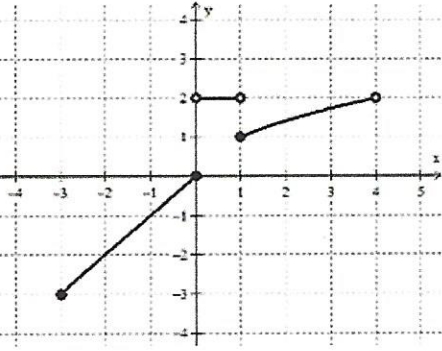
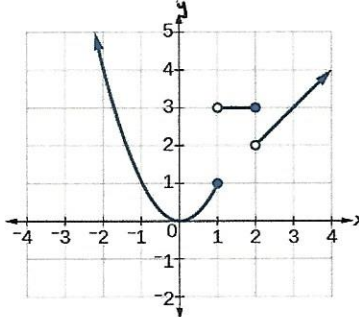


Do Now #3

- Directions:** 1) Find the domain and range of each function.
 2) Find the value of each function when given the value of x .

1)

$f(x)$	$g(x)$	$h(x)$
		
<p>Domain:</p>	<p>Domain:</p>	<p>Domain:</p>
<p>Range:</p>	<p>Range:</p>	<p>Range:</p>

- 2) Find the value of each using the piece wise function graphs above.

$f(2) =$ _____	$g(0) =$ _____	$h(2) =$ _____
$f(1) =$ _____	$g(1) =$ _____	$h(1) =$ _____
$f(0) =$ _____	$g(-1) =$ _____	$h(0) =$ _____
$f(-1) =$ _____	$g(-2) =$ _____	$h(-2) =$ _____
$f(-4) =$ _____	$g(-3) =$ _____	$h(3) =$ _____

Do Now #3 cont'd

- 35** A drama club is selling tickets to the spring musical. The auditorium holds 200 people. Tickets cost \$12 at the door and \$8.50 if purchased in advance. The drama club has a goal of selling at least \$1000 worth of tickets to Saturday's show.

Write a system of inequalities that can be used to model this scenario.

If 50 tickets are sold in advance, what is the minimum number of tickets that must be sold at the door so that the club meets its goal? Justify your answer.