

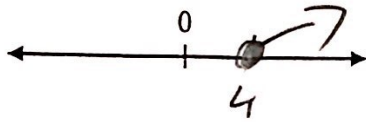
Math II

Unit 1 day 4 Interval Notation, Domain & Range

NAME: W  
Period: \_\_\_\_\_ Date: \_\_\_\_\_

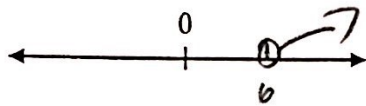
Put in interval notation and draw a graph of each inequality.

1.  $x \geq 4$



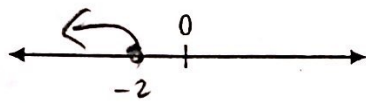
1.  $[4, \infty)$

2.  $x < 6$



2.  $(6, \infty)$

3.  $x \leq -2$



3.  $(-\infty, -2]$

Write each interval as an inequality.

4.  $(-\infty, -8]$

4.  $x \leq -8$

5.  $[5, \infty)$

5.  $x \geq 5$

6.  $(-2, \infty)$

6.  $x > -2$

7.  $[-10, \infty)$

7.  $x \geq -10$

8.  $(-\infty, 6)$

8.  $x < 6$

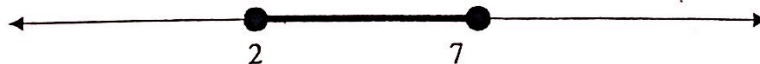
Write interval notation that describes the graph.

9.



9.  $(1, 5)$

10.



10.  $[2, 7]$

11.

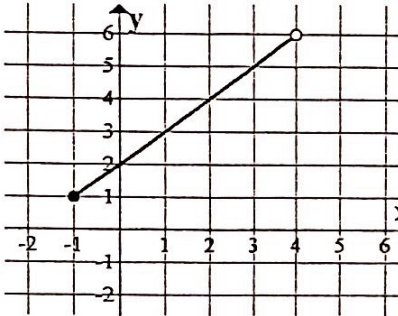
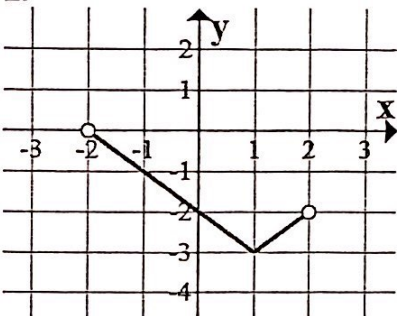
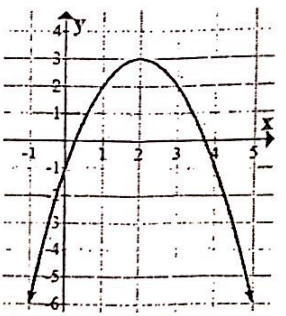
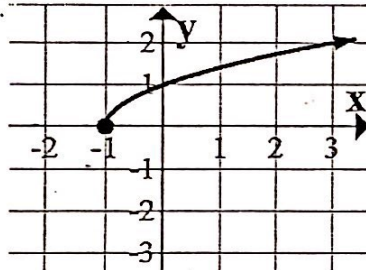
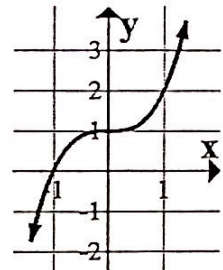
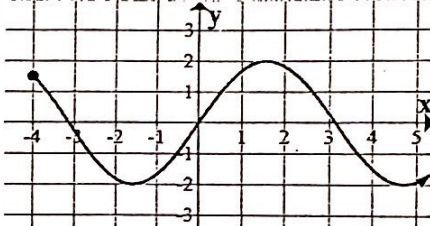
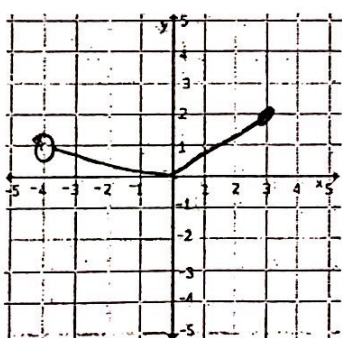
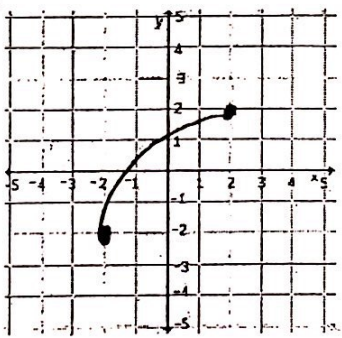
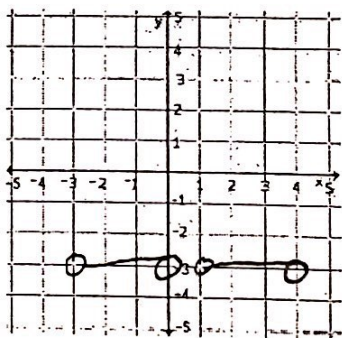


11.  $(-3, -1]$

Domain & Range

1-6) Find the **domain and range** of each graph using interval notation.

7-9) **Draw** a function that satisfies the give domain and range.

<p>1.</p>  <p>Domain: <math>[-1, 4)</math> Range: <math>[1, 6)</math></p>	<p>2.</p>  <p>Domain: <math>(-2, 2)</math> Range: <math>[-3, 0)</math></p>	<p>3.</p>  <p>Domain: <math>(-\infty, \infty)</math> Range: <math>(-\infty, 3]</math></p>
<p>4.</p>  <p>Domain: <math>[-1, \infty)</math> Range: <math>[0, \infty)</math></p>	<p>5.</p>  <p>Domain: <math>(-\infty, \infty)</math> Range: <math>(-\infty, \infty)</math></p>	<p>6.</p>  <p>Domain: <math>[-4, \infty)</math> Range: <math>[-2, 2]</math></p>
<p>7.</p>  <p>Domain: <math>(-4, 3]</math> Range: <math>[0, 2]</math></p>	<p>8.</p>  <p>Domain: <math>[-2, 2]</math> Range: <math>[-2, 2]</math></p>	<p>9.</p>  <p>Domain: <math>(-3, 0) \cup (1, 4)</math> Range: <math>[-3]</math></p>

one possible  
solution

one possible  
solution