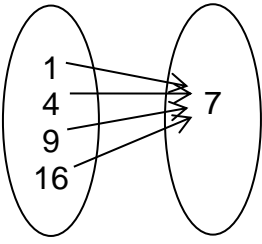
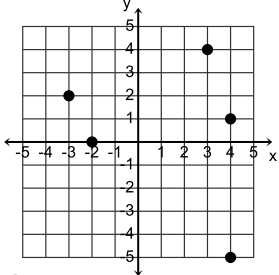
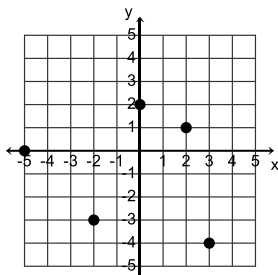
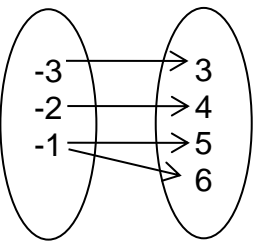
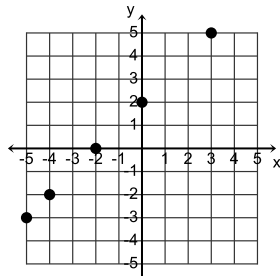


Assignment – Day 1 Intro to Functions

Determine if the following relations are functions. If it is a function, state the domain and range.

<p>1.</p>  <p>function: yes or no</p> <p>D:</p> <p>R:</p>	<p>2.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">gallons of gas</th> <th style="padding: 5px;">cost</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">3.5</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">7</td> </tr> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">10.5</td> </tr> </tbody> </table> <p>function: yes or no</p> <p>D:</p> <p>R:</p>	gallons of gas	cost	0	0	1	3.5	2	7	3	10.5	<p>3.</p>  <p>function: yes or no</p> <p>D:</p> <p>R:</p>
gallons of gas	cost											
0	0											
1	3.5											
2	7											
3	10.5											
<p>4.</p>  <p>function: yes or no</p> <p>D:</p> <p>R:</p>	<p>5.</p>  <p>function: yes or no</p> <p>D:</p> <p>R:</p>	<p>6. $\{(-1, 1), (0, 0), (1, 1), (2, 4)\}$</p> <p>function: yes or no</p> <p>D:</p> <p>R:</p>										
<p>7. $\{(0, 3), (0, 2), (1, 1), (2, 0)\}$</p> <p>function: yes or no</p> <p>D:</p> <p>R:</p>	<p>8.</p>  <p>function: yes or no</p> <p>D:</p> <p>R:</p>	<p>9.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">student name</th> <th style="padding: 5px;">shirt size</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Merica</td> <td style="padding: 5px;">S</td> </tr> <tr> <td style="padding: 5px;">Weston</td> <td style="padding: 5px;">M</td> </tr> <tr> <td style="padding: 5px;">Madden</td> <td style="padding: 5px;">XL</td> </tr> <tr> <td style="padding: 5px;">Bryce</td> <td style="padding: 5px;">M</td> </tr> </tbody> </table> <p>function: yes or no</p> <p>D:</p> <p>R:</p>	student name	shirt size	Merica	S	Weston	M	Madden	XL	Bryce	M
student name	shirt size											
Merica	S											
Weston	M											
Madden	XL											
Bryce	M											

Each of the following are functions, determine the domain and range.

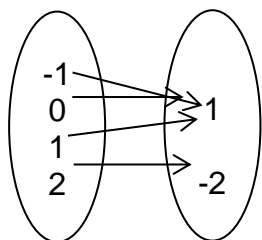
10. D: R:

x	-2	-1	0	1
y	9	6	3	0

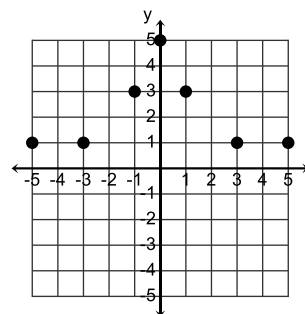
11. D: R:

$\{(8, -1), (-3, 2), (0, 4), (-2, -2)\}$

12. D: R:



13. D: R:



14. D: R:

$\{(4, 1), (7, 0), (2, -1), (3, -2)\}$

15. D: R:

x	-2	-1	1	1
y	5	3	1	1

Review: Solving Equations

1) $-8x + x = -14$

$\{2\}$

2) $-2 = 5x + 1 + 7$

$\{-2\}$

3) $6n + 15 = 3 + 3n$

$\{-4\}$

4) $11 - 2n = 7 - 3n$

$\{-4\}$

5) $5(-5k - 8) = 85$

$\{-5\}$

6) $-7(1 + 7k) = -301$

$\{6\}$

7) $-(x - 4) = x - 12$

$\{8\}$

8) $-16 + 8n = n + 8(5n - 2)$

$\{0\}$