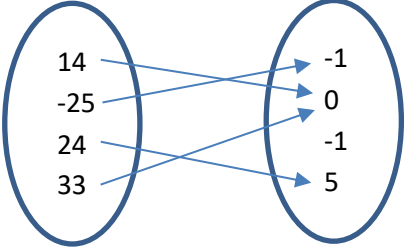
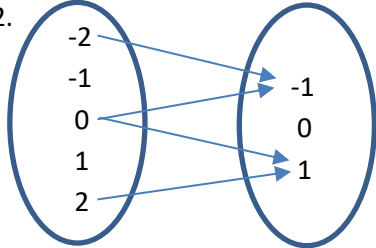
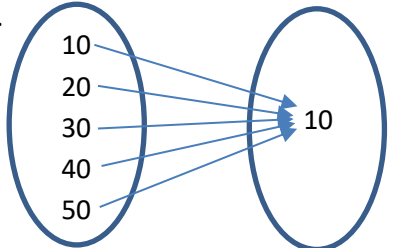


Determine if the following are functions. For each function, tell what the domain and range is. If it is not a function, explain why.

<p>1. </p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>	<p>2. </p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>	<p>3. </p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>
<p>4. $(2, 2), (4, 2), (5, 2), (2, 2), (6, 2)$</p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>	<p>5. The assignment of license plates to cars in a state.</p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>	<p>6. $F(x) = 2x^2 - 2x^2$</p> <p>Function? Yes or No</p> <p>Domain:</p> <p>Range:</p>

7. Let $W(a) = a^3 - a^2$.

a	0	1	2	3	4	h
$W(a)$						

a. Complete the following table:

b. Tell the domain and range of the function (*Hint: Based off of the equation, not the table!*)

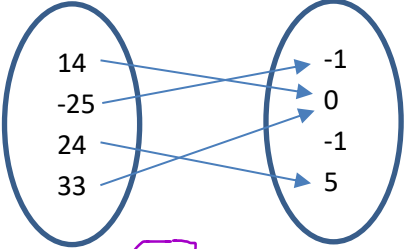
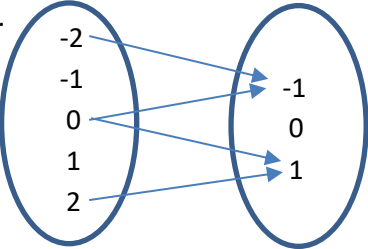
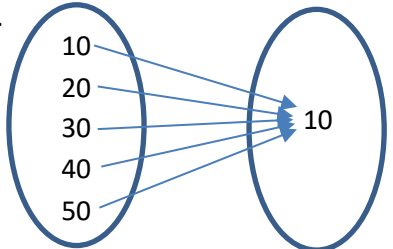
c. Suppose $W(a) = 18$. Find a .

d. Find $W(4)$

Let the functions $A(x) = 5x^2 - 2$, $B(x) = |x| + 2$ and $C(x) = \sqrt{x}$. Find the following:

11. $A(-2)$	12. $B(-2)$	13. $C(4) + A(3)$	14. $C(1) + C(100)$
15. Find x if $A(x) = 43$	16. Give the domain of $C(x)$	17. Find x if $B(x) = 21$	18. $A(12) - B(4)$

Determine if the following are functions. For each function, tell what the domain and range is. If it is not a function, explain why.

<p>1. </p> <p>Function? <u>Yes</u> or No Domain: $\{14, -25, 24, 33\}$ Range: $\{-1, 0, 5\}$</p>	<p>2. </p> <p>Function? Yes or <u>No</u> Domain: Range: <i>Not a function</i></p>	<p>3. </p> <p>Function? <u>Yes</u> or No Domain: Range: $\{10\}$</p>
<p>4. $(2, 2), (4, 2), (5, 2), (2, 2), (6, 2)$</p> <p>Function? <u>Yes</u> or No Domain: $\{2, 4, 5, 6\}$ Range: $\{2\}$</p>	<p>5. The assignment of license plates to cars in a state.</p> <p>Function? <u>Yes</u> or No Domain: $\{\text{All license plates}\}$ Range: $\{\text{All cars with a license plate}\}$</p>	<p>6. $F(x) = 2x^2 - 2x^2$</p> <p>Function? <u>Yes</u> or No Domain: \mathbb{R} or All real #s Range: $\{0\}$</p>

7. Let $W(a) = a^3 - a^2$.

a	0	1	2	3	4	h	$(h+2)$
$W(a)$	0	0	4	18	48	$h^3 - h^2$	

a. Complete the following table:

b. Tell the domain and range of the function (Hint: Based off of the equation, not the table!)

$D: \{0, 1, 2, 3, 4, h\}$ $R: \{0, 4, 18, 48, h^3 - h^2\}$

c. Suppose $W(a) = 18$. Find a .

$a = 3$

d. Find $W(4)$ $W(4) = 48$

Let the functions $A(x) = 5x^2 - 2$, $B(x) = |x| + 2$ and $C(x) = \sqrt{x}$. Find the following:

<p>11. $A(-2)$ 18</p>	<p>12. $B(-2)$ 4</p>	<p>13. $C(-2)$ 45</p>	<p>14. $C(1) + C(100)$ 11</p>
<p>15. Find x if $A(x) = 43$ $x = 3$</p>	<p>16. Give the domain of $C(x)$ $\{x \mid x \geq 0\}$</p>	<p>17. Find x if $B(x) = 21$ $x = -19$ or 19</p>	<p>18. $A(12) - B(4)$ 712 2</p>