

LESSON 20: Functions

Homework

Name _____ Date _____

Directions: Complete the function tables below.

1. $y = 2x - 2$		2. $y = 4x$	
Input (x-values)	Output (y-values)	Input (x-values)	Output (y-values)
1		-4	
2		-2	
3		0	
4		2	
5		4	
6		6	

3. $y = \frac{x}{2} + 2$		4. $y = 2x + 5$	
Input (x-values)	Output (y-values)	Input (x-values)	Output (y-values)
2		3	
4		5	
6		7	
8		9	
10		11	
12		13	

Directions: For Problems 5–8, determine from the table if this is a function and explain your answer.

5. _____ _____.	6. _____ _____ _____.		
Input (x-values)	Output (y-values)	Input (x-values)	Output (y-values)
1	4	0	2
3	10	1	4
5	16	2	6
9	28	2	8
10	31	3	10
11	34	4	12

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7. _____
_____.

Input (x-values)	Output (y-values)
-6	-8
-5	-6
-4	-4
-3	-2
-2	0
-1	2

8. _____

_____.

Input (x-values)	Output (y-values)
-8	6
-4	4
-2	2
2	2
-4	-4
8	6

Directions: For Problems 9 and 10, write the equation that represents the function in the table.

9. _____

Input (x-values)	Output (y-values)
7	6.5
14	10
21	13.5
28	17
35	20.5
42	24

10. _____

Input (x-values)	Output (y-values)
-5	-1
-3	1
-1	3
1	5
3	7
5	9