

## 2.1 Corrective Assignment – Function Intro

Name: \_\_\_\_\_

Pre-Calculus

**For 1-4, identify if the relationship represents a function. If it does not, clearly explain why not.**

1) Independent	Dependent	2) Domain	Range	3) The ordered pairs: $(-7, 1)$ , $(5, -40)$ , $(1, 5)$ , $(-4, 2)$ , and $(5, 8)$ .	4) $f(0) = 1$ , $f(1) = 0$ , $f(2) = 1$ , $f(3) = 0$ , and $f(1) = 0$ .
-13	0	-5	0		
-5	4	6	0		
2	0	-2	2		
-1	2	10	3		
3	4	-5	1		

**For 5-8, identify the independent (input) variable and the dependent (output) variable.**

5) A person's name depends on their social security number.	6) The distance from the sun determines the name of the planet.
<b>Dependent:</b>	<b>Dependent:</b>
<b>Independent:</b>	<b>Independent:</b>
7) A student's grade is a function of the number of tests they have passed.	8) The number of hours practicing helps determine a basketball player's free throw percentage.
<b>Dependent:</b>	<b>Dependent:</b>
<b>Independent:</b>	<b>Independent:</b>

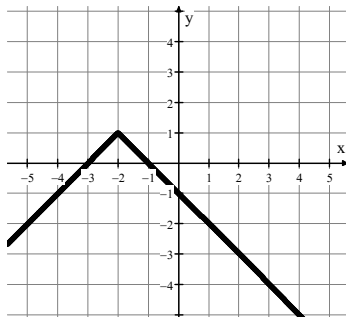
**For 9-11, write a sentence explaining the meaning of the specific numbers given for each scenario.**

9) The input of a function $P$ is the number of shirts the Student Council sells at lunch. The output is the profit earned in dollars. What does $P(15) = 85$ mean?	10) The input of a function $D$ is the amount of Round-Up (in liters) Mr. Bean sprays on his weeds. The output is the number of dead weeds. What does $D(4) = 179$ mean?	11) The postage paid (in cents) for mailing a letter is a function of its weight in ounces. What does $P(26) = 78$ mean?
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**For 12-15, use the graph given for each problem to determine the values. If the value is between two integers, approximate to one decimal place.**

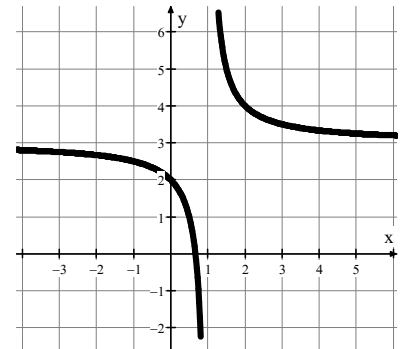
12)

- $f(3) =$
- $f(-4) =$
- If  $f(x) = 1$ , then  $x =$
- If  $f(x) = 0$ , then the possible value(s) of  $x$  are:



13)

- $f(2) =$
- $f(0) =$
- If  $f(x) = 1$ , then  $x =$
- If  $f(x) = 0$ , then the possible value(s) of  $x$  are:



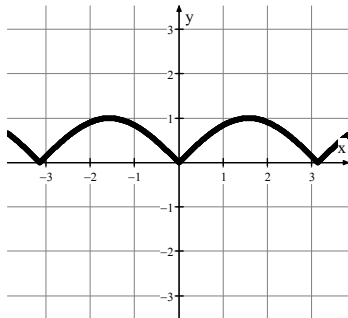
14)

a.  $f(1) =$

b.  $f(-3) =$

c. If  $f(x) = 1$ , then  $x =$

d. If  $f(x) = 0$ , then the possible value(s) of  $x$  are:



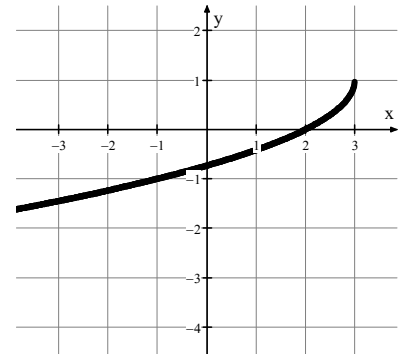
15)

a.  $f(-2) =$

b.  $f(3) =$

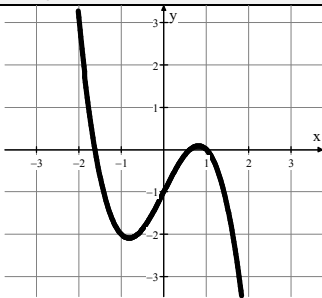
c. If  $f(x) = -1$ , then  $x =$

d. If  $f(x) = 0$ , then the possible value(s) of  $x$  are:

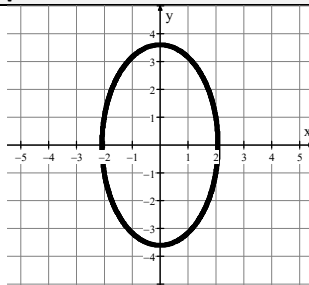


For 16-21, state whether or not each graph represents a function.

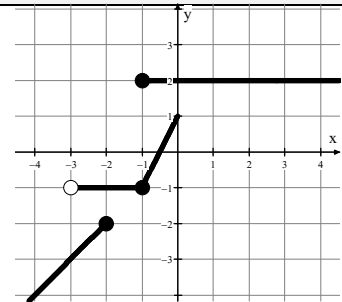
16)



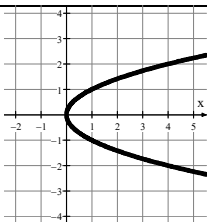
17)



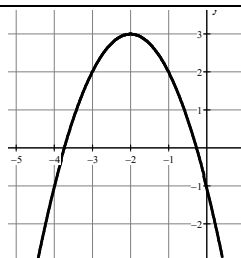
18)



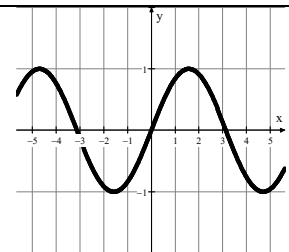
19)



20)



21)



Answers to 2.1 CA

1. Yes, it is a function.	2. No, the domain value of -5 has two different range values.	3. No, the domain value of 5 has two different range values.	4. Yes, it is a function.
5. <b>Dep:</b> Person's name <b>Ind:</b> SSN	6. <b>Dep:</b> Name of planet <b>Ind:</b> Distance from sun	7. <b>Dep:</b> Student's grade <b>Ind:</b> # of passed tests	8. <b>Dep:</b> FT % <b>Ind:</b> # of hours practicing
9. When 15 shirts are sold, the student council makes \$85.		10. If 4 liters of Round-Up is sprayed, there are 179 dead weeds.	11. If a letter weighs 26 ounces, it costs 78 cents in postage.
12. a. -4 b. -1 c. -2 d. -3, -1	13. a. 4 b. 2 c. 0.5 d. 0.8	14. a. 0.8 b. 0 c. -1.5, 1.5 d. -3, 0, 3	15. a. -1.2 b. 1 c. -1 d. 2
16. Yes		17. No	
19. No		20. Yes	
		21. Yes	